EMXP

version 3.10

Software for vintage EMU Samplers

GUIDED TOURS

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TABLE OF CONTENTS

COPYRIGHT 2
TABLE OF CONTENTS 3
DISCLAIMER 4
INTRODUCTION 6
GUIDED TOUR #1: EXPLORING THE CONTENTS OF AN EMAX-I EMX FILE 7
GUIDED TOUR #2: FORMATTING AN EMAX-I FLOPPY DISK 22
GUIDED TOUR #3: FORMATTING AN EMAX-II HARD DISK 28
GUIDED TOUR #4: COPYING EMAX FLOPPY DISKS TO AN EMAX-II HARD DISK 38
GUIDED TOUR #5: COPYING AN EMAX-II BANK FROM ONE SCSI2SD PARTITION TO ANOTHER SCSI2SD PARTITION 57
GUIDED TOUR #6: CONVERTING EMULATOR-II BANK FILES TO SOUNDFONT2 FILES 76
GUIDED TOUR #7: CONVERTING EMAX-II EMX FILES TO AN EMULATOR-IIIX BANK ON A HARD DISK IMAGE FILE 83
GUIDED TOUR #8: CONVERTING AN EMULATOR-III CDROM INTO AN EMAX-II HARD DISK 94
GUIDED TOUR #9: CONVERTING ALL SAMPLES FROM A SET OF EMULATOR-III BANKS TO WAV FILES 107
GUIDED TOUR #10: CONVERTING A SINGLE SAMPLE FROM AN EMULATOR-II BANK TO A WAV FILE 115
GUIDED TOUR #11: COMPRESSING AN 8 MB EMAX-II BANK INTO A 4 MB EMAX-II BANK 121
GUIDED TOUR #12: SENDING A BANK TO AN EMULATOR-II WITH RS422 138
GUIDED TOUR #13: SENDING SAMPLES TO AN EMAX-I WITH RS422 143
GUIDED TOUR #14: SENDING A WAV-FILE TO AN SP-12 WITH MIDI 159
GUIDED TOUR #15: CONSTRUCTING AN EMAX-II BANK 165
GUIDED TOUR #16: LISTENING TO EMULATOR-II BANKS 191
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DISCLAIMER

Version Number: **This is version 3.10**

EMXP v3.10 is an official version.

Note however that all EMXP versions should be considered to be a beta version to a certain degree. The number of test people and test cases is simply too low, and the time spent on testing EMXP by the developer is not sufficient to justify a non-beta status.

EMXP definition: **The EMXP software consists of:**

- emxpn.exe (the program itself)
- emxpv310_referencemanual.pdf (the EMXP reference manual)
- emxpv310_guidedtours.pdf (the EMXP guided tours manual)
- emxpv310_macOSWine_manual.pdf (the installation and user manual for Mac OS X/macOS)

Any reference to EMXP includes all of these components.

Specifications: **Except for the E-Mu System's SoundFont2 specification, EMXP is *not* based on any official specification by E-Mu Systems or by Akai Pro.**

The EMAX specifications have been reverse engineered on EMAX-I and EMAX-II hardware samplers. The AKAI implementation is based partly on the specifications by Paul Kellett (see www.sonicspot.com/guide/akaifiles.html) and partly on additional reverse engineering on AKAI S1000 samplers. The EMULATOR-III and EMULATOR-IIIX specifications have been reverse engineered on EMULATOR-III and EMULATOR-IIIX samplers. The ESI and ESI-v3 specifications have been reverse engineered on an ESI-4000 sampler. The EMULATOR-II specifications have been reverse engineered on an EMULATOR-II sampler using SOUND DESIGNER II FOR EMU II; the EMULATOR-II hard disk specifications have been reverse engineered by means of DREM files created on an EMULATOR-II sampler equipped with a DREM. The EMULATOR-I specifications have been reverse engineered on an EMULATOR-I hardware sampler, with help of aKryoFlux floppy disk controller and an SD HxC floppy emulator. The SP-12 specifications have been reverse engineered on an SP12 Turbo sampling percussion instrument.

As these specifications are not official, Kris Van de Cappelle (the author) can not guarantee correct results.

The SoundFont2 features of EMXP are based on the SoundFont® Technical Specification versions 2.01 (July 23, 1998) and 2.04 (February 3, 2006) published by E-Mu Systems.

The HxC HFE file structure used by EMXP is based on the "SDCard HxC Floppy Emulator HFE File format - Rev.1.1-06/20/2012 document" available on http://hxc2001.free.fr, on the FM and MFM disk format described in literature (e.g. "het PC-hardwareboek, Hans-Peter Messmer, Addison-Wesley, ©2000-2001", "the floppy user guide, M.Haardt, A.Knaff, D.C. Niemi, 2001", …), on the Emulator-I and Emulator-II disk format structures reverse engineered by Kris Van de Cappelle in 2010 (see "Disk_layout_of_EmulatorI_floppy_ disks_v0_8.pdf" and " Disk_layout_of_EmulatorII_floppy_disks_v4.pdf" available on http://www.emxp.net) and by investigating the HFE files generated by the HxCFloppyEmulator software that can be downloaded from http://hxc2001.free.fr.

Special thanks: Adding Emulator-II hard disk and DREM support to EMXP would not have been possible without the help from and intensive test efforts done by Brian Kenneth Ronn, Charles Stella and James Reeb. Moreover all of this would not have been possible if the DREM would not have been capable of supporting Emulator-II+HD hard disks in the first place. A special thanks to Oleksandr Kapitanenko and James Reeb for their huge effort to make this possible.

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INTRODUCTION

This document contains a set of "guided tours" for using the EMXP software.

Each guided tour is a practical use case which is illustrated in a no-nonsense style: step-by-step, screen-by-screen, without an overload of theory and details.

EMXP is a very versatile software package, literally hundreds of use cases are supported by EMXP.
We can't explain them all.
In this manual we have selected 16 typical examples of processes that you are probably going to perform with EMXP.
If your specific use case is not included in this manual, you will probably find a similar one which can be used as a starting point or guidance for your specific use case.

Each guided tour contains screen-shots of *every* screen that will appear during the use case, *except* for the so-called "wait screens" and "proceeding screens": these are the screens that may temporarily appear if EMXP is performing a long-running activity, e.g. collecting a file overview of 5000 files or scanning the drives connected to your computer. "Wait screens" and "proceeding screens" can appear at any point in time while using EMXP, so we won't always explicitly show them in this manual.

Each step and each screen of a guided tour is accompanied by a very short explanation - the explanation has been kept short intentionally to keep the guided tours as readable as possible.
If you would like to know more details about a use case step or about a screen, we refer to the EMXP Reference Manual.

Here's the list of guided tours included in this manual:

- GUIDED TOUR #1: EXPLORING THE CONTENTS OF AN EMAX-I EMX FILE
- GUIDED TOUR #2: FORMATTING AN EMAX-I FLOPPY DISK
- GUIDED TOUR #3: FORMATTING AN EMAX-II HARD DISK
- GUIDED TOUR #4: COPYING EMAX FLOPPY DISKS TO AN EMAX-II HARD DISK
- GUIDED TOUR #5: COPYING AN EMAX-II BANK FROM ONE SCSI2SD PARTITION TO ANOTHER SCSI2SD PARTITION
- GUIDED TOUR #6: CONVERTING EMULATOR-II BANK FILES TO SOUNDFONT2 FILES
- GUIDED TOUR #7: CONVERTING EMAX-II EMX FILES TO AN EMULATOR-IIIX BANK ON A HARD DISK IMAGE FILE
- GUIDED TOUR #8: CONVERTING AN EMULATOR-III CDROM INTO AN EMAX-II HARD DISK
- GUIDED TOUR #9: CONVERTING ALL SAMPLES FROM A SET OF EMULATOR-III BANKS TO WAV FILES
- GUIDED TOUR #10: CONVERTING A SINGLE SAMPLE FROM AN EMULATOR-II BANK TO A WAV FILE
- GUIDED TOUR #11: COMPRESSING AN 8 MB EMAX-II BANK INTO A 4 MB EMAX-II BANK
- GUIDED TOUR #12: SENDING A BANK TO AN EMULATOR-II WITH RS422
- GUIDED TOUR #13: SENDING SAMPLES TO AN EMAX-I WITH RS422
- GUIDED TOUR #14: SENDING A WAV-FILE TO AN SP-12 WITH MIDI
- GUIDED TOUR #15: CONSTRUCTING AN EMAX-II BANK
- GUIDED TOUR #16: LISTENING TO EMULATOR-II BANKS

We recommend to read at least Guided Tour #1, because it gives a good introduction to the user interface of EMXP, the File Manager and the Folder Manager.

Note:
This manual assumes that the "Yamaha" convention for the keyboard octave notation is applicable. As a consequence the text and pictures in this manual assume that the middle C is the C3 note (corresponding to MIDI note 60). This is the convention used by EMU samplers as well. Many other musical instruments and software use the scientific pitch notation though, which considers the C4 note to be the middle C. EMXP offers the possibility to choose the middle C convention by means of a Preference.

GUIDED TOUR #1: EXPLORING THE CONTENTS OF AN EMAX-I EMX FILE

In this guided tour, we will have a look at the presets, voices and samples of a factory EMAX-I EMX file, and we will check the parameters of a preset, voice and sample.

1) After having started EMXP the main menu will appear. Since we want to have a look at an EMU EMAX-I file, we select the first menu function by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------
                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences
-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

2) The following menu gives access to all EMU objects. Since we want to have a look at an EMAX-I file, we select the first menu function.

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------
              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files
-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

3) In the EMAX-I menu, we select the second menu function to access the EMAX-I EMX files.

```
                              EMAX-I SAMPLER MENU
-----------------------------------------------------------------------------

            1.  Manage EMAX-I Bank Files

            2.  Manage EMAX-I EMX Files

            3.  Manage EMAX-I Operating System Files

            4.  Manage EMAX-I Hard Disk Images

            5.  Manage EMAX-I Hard Disks

            6.  Manage EMAX-I Floppy Disk Images

            7.  Manage EMAX-I HxC Floppy Disk Images

            8.  Manage other EMAX-I Files and Disks

            9.  Receive Banks or Samples from EMAX-I via RS422/MIDI

-----------------------------------------------------------------------------
             [1]...[9]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                          Please enter a menu option:
```

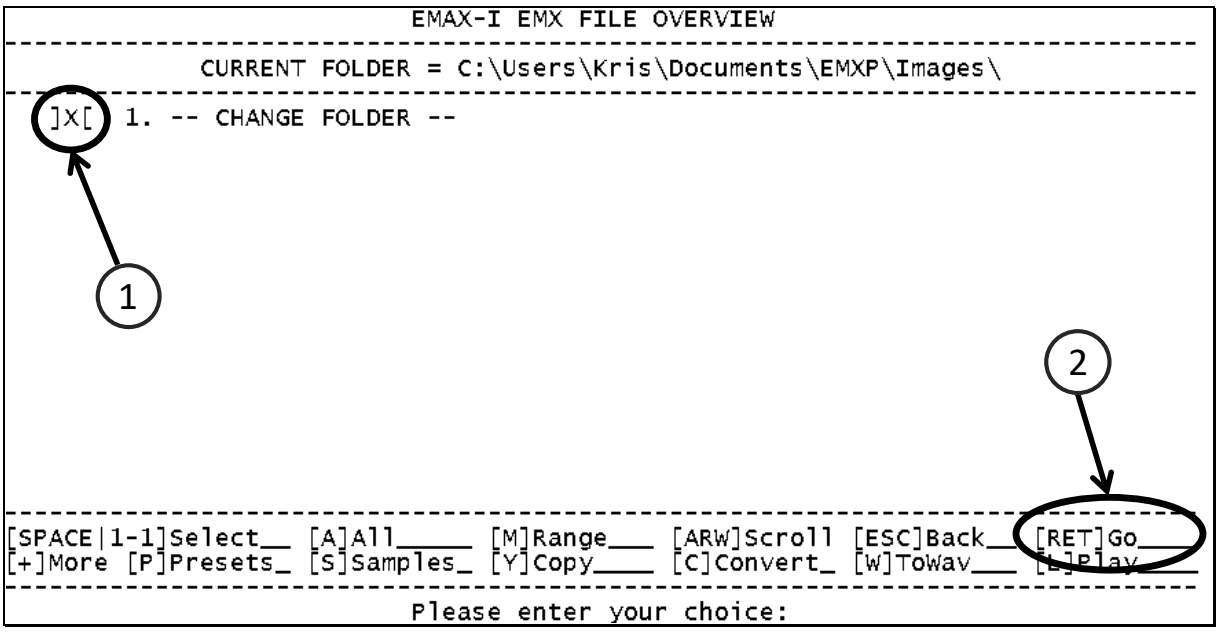
4) EMXP is looking for all EMAX-I EMX files in the current folder for EMAX-I EMX files (here subfolder "\Images"). In our example this folder does not contain any EMX files, so a warning is displayed. We press any key on the keyboard to skip this warning. We can also press the ESCAPE key to skip not only this warning but also any warning which may appear after this warning.

```
                                   WARNING
-----------------------------------------------------------------------------



                    No EMAX-I EMX files could be found
                          in the current folder.

                     Please select another folder, or
                 make sure there are valid EMAX-I EMX files
            with a correct file extension in the current folder.

                        Press any key to continue...



-----------------------------------------------------------------------------
     [Any key]: Continue                            [ESC]: Skip warnings
-----------------------------------------------------------------------------
                          Press a key (or ESC)...: _
```

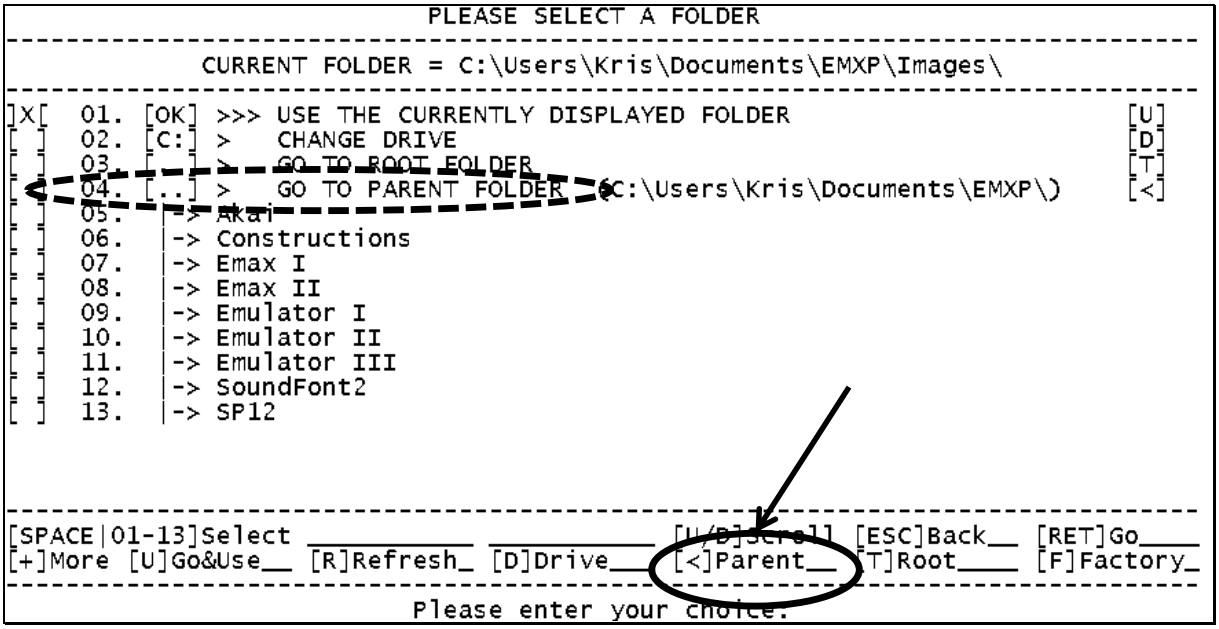
5) EMXP displays the overview of EMAX-I EMX files now, but the overview is empty. Let's navigate to the folder which contains EMAX-I EMX files. We can do this by selecting the first item called "-- CHANGE FOLDER --". This can be done in two ways:

- by using the UP and DOWN key to move the cursor (marked "] [" instead of "[ ]") to the first item and pressing the SPACE bar to actually select that item. The selector in front of the item changes into "]X[" to indicate that the item has been selected. Note that in our example there is only one item displayed, so the cursor is positioned on the first item by default.
- by pressing "1" on the keyboard. The selector in front of the first item changes into]X[to indicate that the item is selected.

We press ENTER to go to the folder overview.



6) An overview of all subfolders of the current folder is displayed. In our example the EMX files are in the "\Emax I" subfolder, but before navigating to that folder, let's first have a quick look to some interesting features of the Folder Manager. To quickly navigate to the parent folder, we can simply press the LEFT arrow key. *An alternative - but slower - method would be to select the "> GO TO PARENT FOLDER" item (item 4) and to press ENTER.*



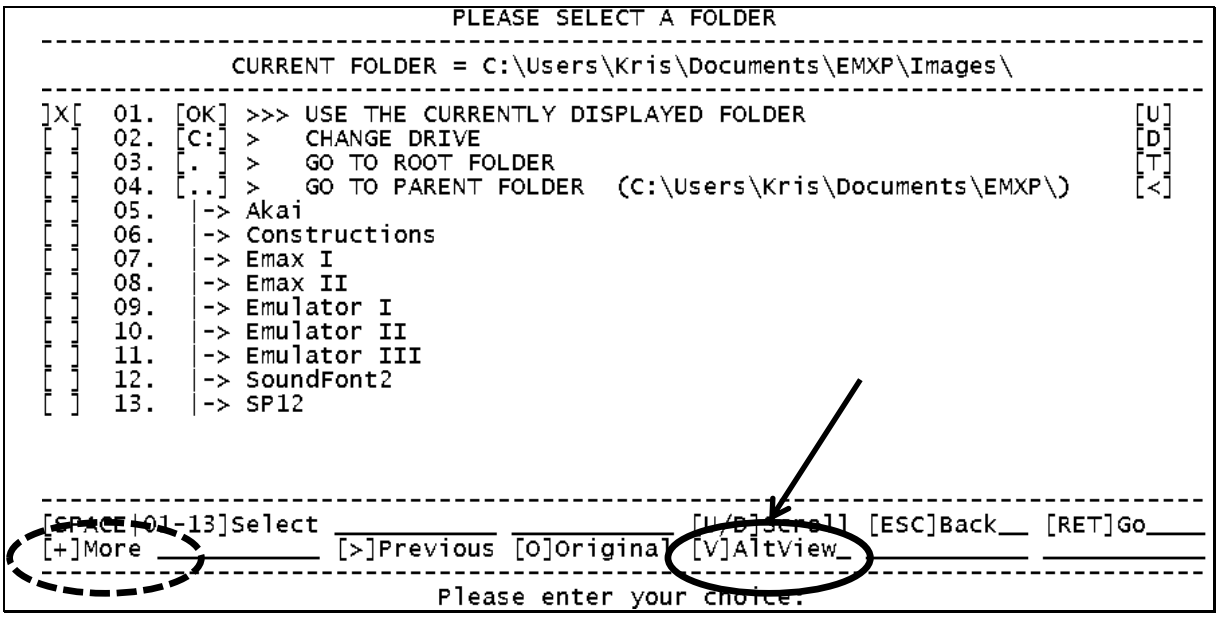
7) The "\EMXP" folder has become the *current folder now.* By pressing the RIGHT arrow key, we can return to the previous child folder ("\EMXP\Images", see step 6). But let's jump now immediately to the root folder of the current drive, by pressing the "T" shortcut key. *An alternative - but slower - method would be to select the "> GO TO ROOT FOLDER" item (item 3) and to press ENTER.*

```
                              PLEASE SELECT A FOLDER
-------------------------------------------------------------------------------
                 CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\
-------------------------------------------------------------------------------
]X[  01. [OK] >>> USE THE CURRENTLY DISPLAYED FOLDER                        [U]
[ ]  02. [C:] >   CHANGE DRIVE                                              [D]
[ ]  03. [. ] >   GO TO ROOT FOLDER                                         [T]
[ ]  04. [..] >   GO TO PARENT FOLDER  (C:\Users\Kris\Documents\)           [<]
[ ]  05.  |-> Akais1000
[ ]  06.  |-> Images
[ ]  07.  |-> Logs
[ ]  08.  |-> Os
[ ]  09.  |-> Reports
[ ]  10.  |-> Temp
[ ]  11.  |-> Wav
-------------------------------------------------------------------------------
[SPACE|01-11]Select __________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More [U]Go&Use__ [R]Refresh_ [D]Drive___ [<]Parent__ [T]Root____ [F]Factory_
-------------------------------------------------------------------------------
                              Please enter your choice:
```

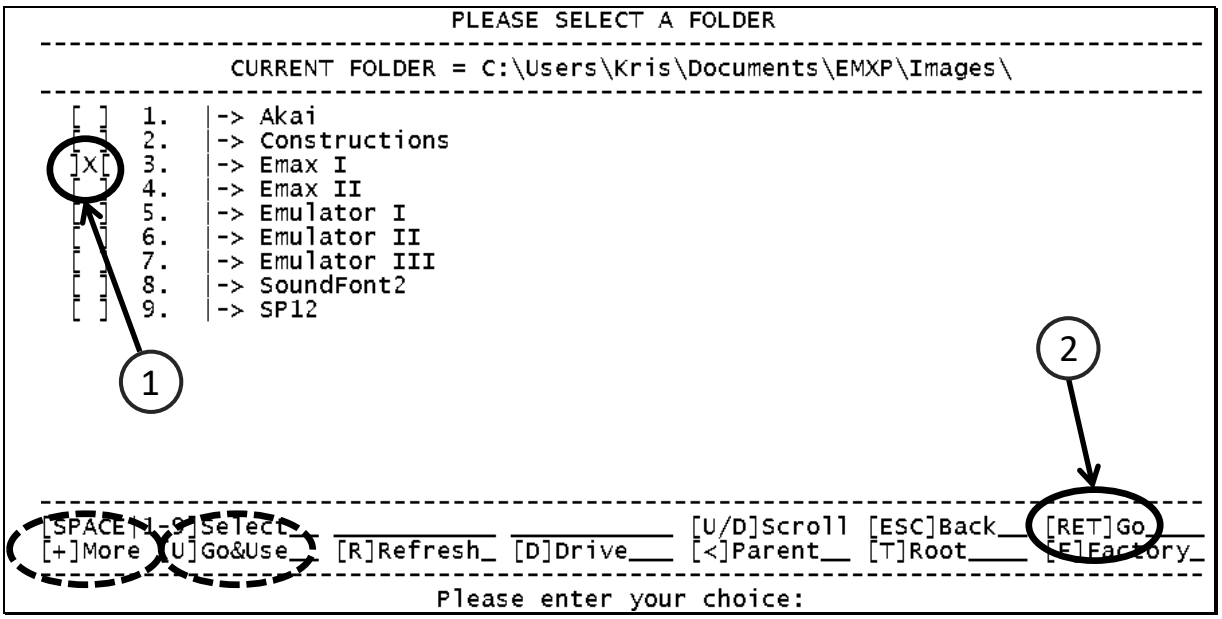
8) Let's navigate back now to the factory default folder for EMAX-I EMX images, by pressing the "F" shortcut key.

```
                              PLEASE SELECT A FOLDER
-------------------------------------------------------------------------------
                                CURRENT FOLDER = C:\
-------------------------------------------------------------------------------
]X[  01. [OK] >>> USE THE CURRENTLY DISPLAYED FOLDER                        [U]
[ ]  02. [C:] >   CHANGE DRIVE                                              [D]
[ ]  03. [. ] >   GO TO ROOT FOLDER                                         [T]
[ ]  04. [..] >   GO TO PARENT FOLDER  (C:\)                                [<]
[ ]  05.  |-> cygwin64
[ ]  06.  |-> Dos
[ ]  07.  |-> Downloads
[ ]  08.  |-> drivers
[ ]  09.  |-> GTK
[ ]  10.  |-> Intel
[ ]  11.  |-> Output Files
[ ]  12.  |-> PerfLogs
[ ]  13.  |-> Program Files
[ ]  14.  |-> Program Files (x86)
[ ]  15.  |-> Python27
[ ]  16.  |-> SymCache
-------------------------------------------------------------------------------
[SPACE|01-24]Select __________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More [U]Go&Use__ [R]Refresh_ [D]Drive___ [<]Parent__ [T]Root____ [F]Factory_
-------------------------------------------------------------------------------
                              Please enter your choice:
```

9) If we like using shortcut keys more than having to select items like "> GO TO PARENT FOLDER", we can make more room for displaying folders by changing the View Mode of the Folder Manager. This can be done by pressing shortcut key "V" a few times (this shortcut key will appear on the bottom line of the screen after pressing the "+" shortcut key a few times).



10) First we press the "+" key to see the most important shortcut keys on the bottom line again. Let's now navigate to the subfolder containing the EMX files. In our example the EMX files are in the "\Emax I" subfolder, so we select item number 3 (by moving the cursor and pressing the SPACE bar or by entering "3" on the keyboard) and then we press ENTER. *As an alternative - faster - method we can also press the "U" shortcut key, as explained in the next step.*



11) First let's change the View Mode again by pressing the "V" shortcut key.The subfolders of the selected "\Emax I" folder are displayed - note that we don't see the *files* of that folder, only the *folders.* Since this is the folder we want to use, we accept the folder by selecting the first item named "[OK] >>> USE THE CURRENTLY DISPLAYED FOLDER" and we press ENTER to get an overview of all EMAX-I EMX files in that folder. *Alternatively, it's also possible to simply select none of the items and to press ENTER. Or we could have pressed "U" instead of ENTER in step 10 when selecting item 3: this would have resulted immediately in the file overview screen of step 12.*

```
                          PLEASE SELECT A FOLDER
-------------------------------------------------------------------------------
         CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax I\
-------------------------------------------------------------------------------
]X[  1. [OK] >>> USE THE CURRENTLY DISPLAYED FOLDER                        [U]
[ ]  2. [C:] >   CHANGE DRIVE                                              [D]
[ ]  3. [. ] >   GO TO ROOT FOLDER                                         [T]
[ ]  4. [..] >   GO TO PARENT FOLDER  (C:\Users\Kris\D...\EMXP\Images\)    [<]
[ ]  5.  |-> Bank Images
[ ]  6.  |-> Floppy Images
[ ]  7.  |-> HxC Images
[ ]  8.  |-> SD Images

-------------------------------------------------------------------------------
[SPACE|1-8]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More [U]Go&Use__ [R]Refresh_ [D]Drive___ [<]Parent__ [T]Root____ [F]Factory_
-------------------------------------------------------------------------------
                          Please enter your choice:
```

12) A list of EMAX-I EMX files in the selected folder appears now. Before actually selecting an EMX file, let's first explore some interesting features of the File Manager. We press the RIGHT arrow key a few times to scroll through the information which is available for each of the files.

```
                          EMAX-I EMX FILE OVERVIEW
-------------------------------------------------------------------------------
         CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax I\
-------------------------------------------------------------------------------
  ] [  001. -- CHANGE FOLDER --
  [ ]  002. 000-ZD700-GrandPiano          Piano Hi E #Pres: 27  #Samp: 8
  [ ]  003. 001-ZD701-ArcoStrings         NarrowSter #Pres: 27  #Samp: 11
  [ ]  004. 002-ZD702-RockKit             RockmanStr #Pres: 29  #Samp: 15
  [ ]  005. 003-ZD703-RockOrgan           Hammond B3 #Pres: 16  #Samp: 12
  [ ]  006. 004-ZD704-BigBrass            NarrowSter #Pres: 19  #Samp: 8
  [ ]  007. 005-ZD705-FrenchHorn          French Hor #Pres: 12  #Samp: 8
  [ ]  008. 006-ZD707-MixedChorus         Female Cho #Pres: 21  #Samp: 11
  [ ]  009. 007-ZD708-KyodalSynthCollage  Doubled Ba #Pres: 20  #Samp: 16
  [ ]  010. 008-ZD709-RockGuitar          Mute/Chrd/ #Pres: 19  #Samp: 20
  [ ]  011. 009-ZD710-MarimbaVibes        Marimbas   #Pres: 21  #Samp: 16
  [ ]  012. 010-ZD711-PopBrass            TromTrum&S #Pres: 22  #Samp: 31
  [ ]  013. 011-ZD712-ElectricGrand       El Grand S #Pres: 14  #Samp: 8
  [ ]  014. 012-ZD713-MultiSynthCombo     Multi Synt #Pres: 32  #Samp: 11
  [ ]  015. 013-ZD714-WoodwindEnsemble    Cornucopia #Pres: 29  #Samp: 29
  [ ]  016. 014-ZD715-SteelStrungGuitar   6 String G #Pres: 25  #Samp: 7
-------------------------------------------------------------------------------
[SPACE|001-127]Slct [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ __________
___________________ [R]Refresh_ [N]SortName [T]SortTime [Z]SortSize __________
-------------------------------------------------------------------------------
                          Please enter your choice:
```

13) After pressing the RIGHT key 3 times, the overview screen is showing the Date and Time of the most recent modification of each file, as well as the actual file size. It's also possible to sort the files. This can be done on file name, timestamp or file size, by pressing shortcut key "N", "T" or "Z" and in both ascending or descending order (by pressing the shortcut key once more). Let's order the files on timestamp in ascending order, by pressing "T" once.

```
                          EMAX-I EMX FILE OVERVIEW
-------------------------------------------------------------------------------
         CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax I\
-------------------------------------------------------------------------------
  ] [  001. -- CHANGE FOLDER --
  [ ]  002. 000-ZD700-GrandPiano            26/03/2000 18:38:36   541 KB
  [ ]  003. 001-ZD701-ArcoStrings           26/03/2000 18:39:30   541 KB
  [ ]  004. 002-ZD702-RockKit               26/03/2000 18:33:24   541 KB
  [ ]  005. 003-ZD703-RockOrgan             26/03/2000 18:34:58   541 KB
  [ ]  006. 004-ZD704-BigBrass              26/03/2000 18:36:28   541 KB
  [ ]  007. 005-ZD705-FrenchHorn            26/03/2000 18:42:38   541 KB
  [ ]  008. 006-ZD707-MixedChorus           26/03/2000 18:47:48   541 KB
  [ ]  009. 007-ZD708-KyodalSynthCollage    26/03/2000 18:49:36   541 KB
  [ ]  010. 008-ZD709-RockGuitar            26/03/2000 18:51:04   541 KB
  [ ]  011. 009-ZD710-MarimbaVibes          26/03/2000 18:52:30   541 KB
  [ ]  012. 010-ZD711-PopBrass              11/06/2000 12:18:58   541 KB
  [ ]  013. 011-ZD712-ElectricGrand         11/06/2000 12:23:28   541 KB
  [ ]  014. 012-ZD713-MultiSynthCombo       11/06/2000 11:45:48   541 KB
  [ ]  015. 013-ZD714-WoodwindEnsemble      11/06/2000 12:19:56   541 KB
  [ ]  016. 014-ZD715-SteelStrungGuitar     11/06/2000 12:20:48   541 KB
-------------------------------------------------------------------------------
[SPACE|001-127]Slct [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ ___________
___________________ [R]Refresh_ [N]SortName [T]SortTime [Z]SortSize ___________
-------------------------------------------------------------------------------
                          Please enter your choice:
```

14) In the ordered EMAX-I EMX file overview of the "\Images\Emax I" folder, we select the file that we want to explore. In our example we want to check the file named "001-ZD701-ArcoStrings.EM1". So we select the sixth item and press ENTER. Make sure to select only one item - if multiple items are selected it will not be possible to view the contents of the selected files.

```
                          EMAX-I EMX FILE OVERVIEW
-------------------------------------------------------------------------------
         CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax I\
-------------------------------------------------------------------------------
  [ ]  001. -- CHANGE FOLDER --
  [ ]  002. 002-ZD702-RockKit               26/03/2000 18:33:24   541 KB
  [ ]  003. 003-ZD703-RockOrgan             26/03/2000 18:34:58   541 KB
  [ ]  004. 004-ZD704-BigBrass              26/03/2000 18:36:28   541 KB
  [ ]  005. 000-ZD700-GrandPiano            26/03/2000 18:38:36   541 KB
  ]X[  006. 001-ZD701-ArcoStrings           26/03/2000 18:39:30   541 KB
  [ ]  007. 005-ZD705-FrenchHorn            26/03/2000 18:42:38   541 KB
  [ ]  008. 006-ZD707-MixedChorus           26/03/2000 18:47:48   541 KB
  [ ]  009. 007-ZD708-KyodalSynthCollage    26/03/2000 18:49:36   541 KB
  [ ]  010. 008-ZD709-RockGuitar            26/03/2000 18:51:04   541 KB
  [ ]  011. 009-ZD710-MarimbaVibes          26/03/2000 18:52:30   541 KB
  [ ]  012. 059-ZD762-LinearSynthesis4      01/04/2000 09:44:12   541 KB
  [ ]  013. 900-ZD779A-SpectrumSynthEmaxSE  01/04/2000 09:46:36   541 KB
  [ ]  014. 901-ZD780A-TransformMultiEm...  01/04/2000 09:48:54   541 KB
  [ ]  015. 902-ZD781A-DevUpdateEmaxSE      01/04/2000 09:50:32   541 KB
  [ ]  016. 092-ZD804-Atmospheres           01/04/2000 09:52:40   541 KB
-------------------------------------------------------------------------------
[SPACE|001-127]Slct [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
[+]More [P]Presets_ [S]Samples_ [Y]Copy____ [C]Convert_ [W]ToWav___ [E]Play____
-------------------------------------------------------------------------------
                          Please enter your choice:
```

1

2

15) The EMAX-I EMX menu appears now. Let's have a look at the details and parameters on bank level by selecting menu function 9.

```
                          EMAX-I EMX FILE MENU
-----------------------------------------------------------------------------

                1.  Copy to other EMAX-I File or Disk

                2.  Convert to Other Sampler Format

                3.  Extract all Samples to WAV Files

                4.  Play all EMAX-I Samples

                5.  Send EMAX-I EMX File(s) to EMAX via RS422

                6.  Create Bank/Preset Overview Report

                7.  Show Presets

                8.  Show Samples

                9.  Show Bank Details

-----------------------------------------------------------------------------
            [1]...[9]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

16) Some general information about the sound bank of the EMX file is displayed. To leave this screen, we press the ESCAPE button on the keyboard.

```
                    EMAX-I BANK DETAILS B00: NARROWSTEREO
-----------------------------------------------------------------------------

Bank name:               NarrowStereo
Bank number:             B00

Type of bank:            EMAX-I
Size of bank:            552841 Bytes
Size of samples:         521787 Bytes         (= 521787 Sample points)

Required No of Disks:    1 Floppy disks
Number of Presets:       27
Number of Samples:       11   (10 if Spectrum Synthesis has been used)
Number of Sequences:     2

Start up with Preset:    P25
Start up with Sequence:  S01

Backup Status:           Not applicable


-----------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-----------------------------------------------------------------------------
                         Please enter your choice:
```

The same bank details screen could also have been obtained by pressing "D" while we were in the EMAX-I EMX file overview screen. This overview screen offered so-called "short cut keys" to get immediate access to any of the actions available on EMX files. Only 6 shortcut keys are displayed at once on the bottom line of the overview screen. By pressing "+" the next set of 6 shortcut keys will be displayed, and one of them is "D" for getting bank details. See pictures below.

```
                              EMAX-I EMX FILE OVERVIEW
      ------------------------------------------------------------------------------
              CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax I\
      ------------------------------------------------------------------------------
        [ ]  001. -- CHANGE FOLDER --
        [ ]  002. 002-ZD702-RockKit                RockmanStr #Pres: 29  #Samp: 15
        [ ]  003. 003-ZD703-RockOrgan              Hammond B3 #Pres: 16  #Samp: 12
        [ ]  004. 004-ZD704-BigBrass               NarrowSter #Pres: 19  #Samp: 8
        [ ]  005. 000-ZD700-GrandPiano             Piano Hi E #Pres: 27  #Samp: 8
       ]X[  006. 001-ZD701-ArcoStrings             NarrowSter #Pres: 27  #Samp: 11
        [ ]  007. 005-ZD705-FrenchHorn             French Hor #Pres: 12  #Samp: 8
        [ ]  008. 006-ZD707-MixedChorus            Female Cho #Pres: 21  #Samp: 11
        [ ]  009. 007-ZD708-KyodalSynthCollage     Doubled Ba #Pres: 20  #Samp: 16
        [ ]  010. 008-ZD709-RockGuitar             Mute/Chrd/ #Pres: 19  #Samp: 20
        [ ]  011. 009-ZD710-MarimbaVibes           Marimbas   #Pres: 21  #Samp: 16
        [ ]  012. 059-ZD762-LinearSynthesis4       Pipeline   #Pres: 16  #Samp: 13
        [ ]  013. 900-ZD779A-SpectrumSynthEmaxSE   SE Wave 1  #Pres: 50  #Samp: 41
        [ ]  014. 901-ZD780A-TransformMultiEm...   TM tm      #Pres: 39  #Samp: 46
        [ ]  015. 902-ZD781A-DevUpdateEmaxSE       InstAttack #Pres: 100 #Samp: 142
        [ ]  016. 092-ZD804-Atmospheres            Combospher #Pres: 12  #Samp: 6
      ------------------------------------------------------------------------------
      [SPACE|001-127]Slct [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
      [+]More [P]Presets_ [S]Samples_ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
      ------------------------------------------------------------------------------
                              Please enter your choice:
```

```
                              EMAX-I EMX FILE OVERVIEW
      ------------------------------------------------------------------------------
              CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax I\
      ------------------------------------------------------------------------------
        [ ]  001. -- CHANGE FOLDER --
        [ ]  002. 002-ZD702-RockKit                RockmanStr #Pres: 29  #Samp: 15
        [ ]  003. 003-ZD703-RockOrgan              Hammond B3 #Pres: 16  #Samp: 12
        [ ]  004. 004-ZD704-BigBrass               NarrowSter #Pres: 19  #Samp: 8
        [ ]  005. 000-ZD700-GrandPiano             Piano Hi E #Pres: 27  #Samp: 8
       ]X[  006. 001-ZD701-ArcoStrings             NarrowSter #Pres: 27  #Samp: 11
        [ ]  007. 005-ZD705-FrenchHorn             French Hor #Pres: 12  #Samp: 8
        [ ]  008. 006-ZD707-MixedChorus            Female Cho #Pres: 21  #Samp: 11
        [ ]  009. 007-ZD708-KyodalSynthCollage     Doubled Ba #Pres: 20  #Samp: 16
        [ ]  010. 008-ZD709-RockGuitar             Mute/Chrd/ #Pres: 19  #Samp: 20
        [ ]  011. 009-ZD710-MarimbaVibes           Marimbas   #Pres: 21  #Samp: 16
        [ ]  012. 059-ZD762-LinearSynthesis4       Pipeline   #Pres: 16  #Samp: 13
        [ ]  013. 900-ZD779A-SpectrumSynthEmaxSE   SE Wave 1  #Pres: 50  #Samp: 41
        [ ]  014. 901-ZD780A-TransformMultiEm...   TM tm      #Pres: 39  #Samp: 46
        [ ]  015. 902-ZD781A-DevUpdateEmaxSE       InstAttack #Pres: 100 #Samp: 142
        [ ]  016. 092-ZD804-Atmospheres            Combospher #Pres: 12  #Samp: 6
      ------------------------------------------------------------------------------
      [SPACE|001-127]Slct [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
      [+]More [D]Details_ [U]UpldEmax [J]UpldEmx2 [R]Report__ [N]SortName [T]SortTime
      ------------------------------------------------------------------------------
                              Please enter your choice:
```

We can use the shortcut key "D" even if it's not currently displayed on the bottom line of the screen (unless specified otherwise in the Look & Feel preferences).

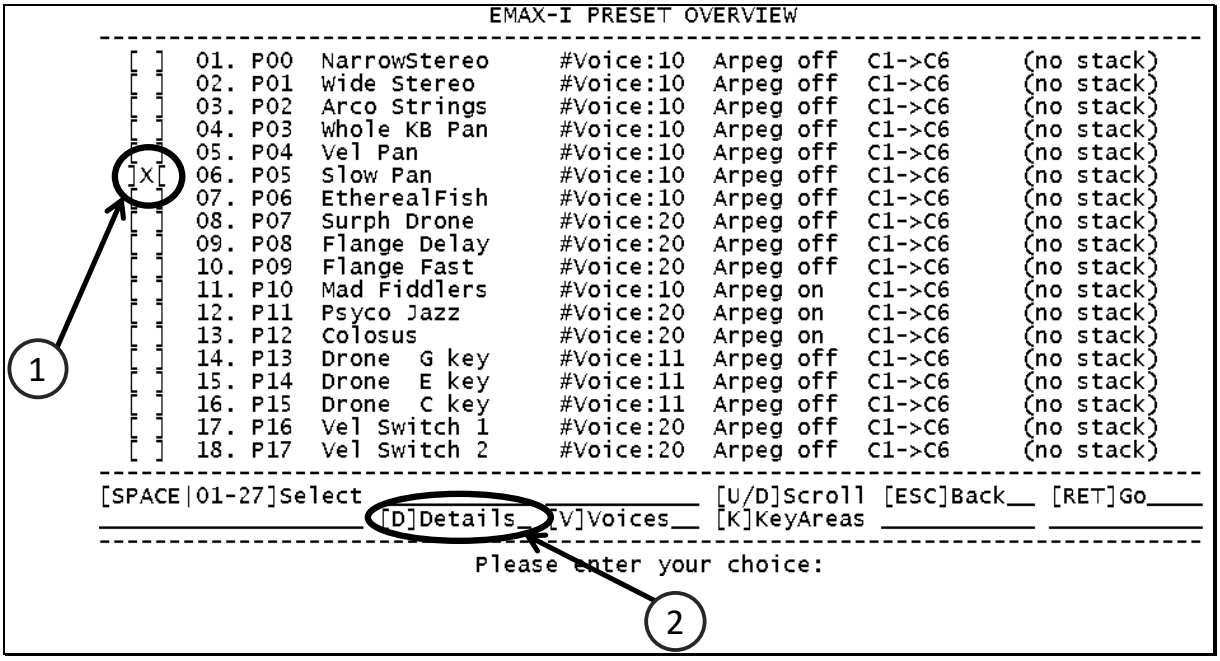
17) We are back in the EMAX-I EMX menu. Let's now get an overview of all presets in the EMX file, by selecting menu function 7.

```
                              EMAX-I EMX FILE MENU
-----------------------------------------------------------------------------

                 1.  Copy to other EMAX-I File or Disk

                 2.  Convert to Other Sampler Format

                 3.  Extract all Samples to WAV Files

                 4.  Play all EMAX-I Samples

                 5.  Send EMAX-I EMX File(s) to EMAX via RS422

                 6.  Create Bank/Preset Overview Report

                 7.  Show Presets

                 8.  Show Samples

                 9.  Show Bank Details

-----------------------------------------------------------------------------
             [1]...[9]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                           Please enter a menu option:
```

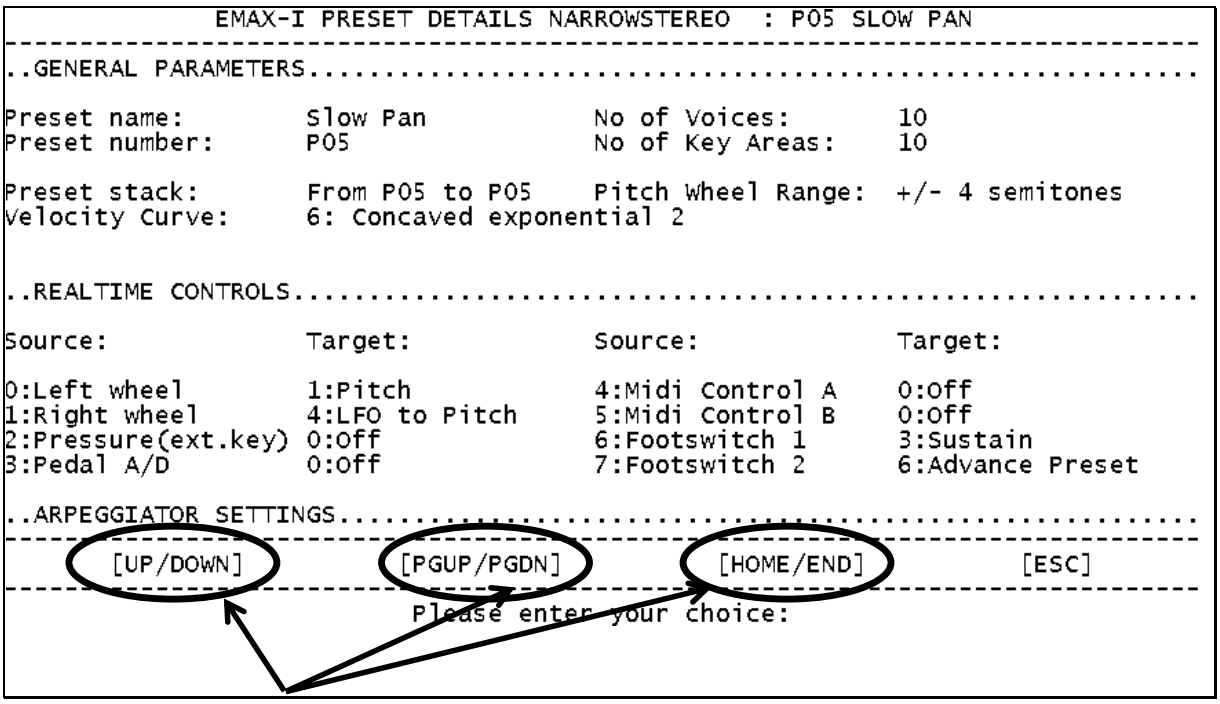
The same preset overview could also have been obtained by pressing "P" while we were in the EMAX-I EMX file overview screen. See picture below.

```
                              EMAX-I EMX FILE OVERVIEW
-----------------------------------------------------------------------------
         CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax I\
-----------------------------------------------------------------------------
  [ ]  001. -- CHANGE FOLDER --
  [ ]  002. 002-ZD702-RockKit              RockmanStr #Pres: 29  #Samp: 15
  [ ]  003. 003-ZD703-RockOrgan            Hammond B3 #Pres: 16  #Samp: 12
  [ ]  004. 004-ZD704-BigBrass             NarrowSter #Pres: 19  #Samp: 8
  [ ]  005. 000-ZD700-GrandPiano           Piano Hi E #Pres: 27  #Samp: 8
  ]X[  006. 001-ZD701-ArcoStrings          NarrowSter #Pres: 27  #Samp: 11
  [ ]  007. 005-ZD705-FrenchHorn           French Hor #Pres: 12  #Samp: 8
  [ ]  008. 006-ZD707-MixedChorus          Female Cho #Pres: 21  #Samp: 11
  [ ]  009. 007-ZD708-KyodalSynthCollage   Doubled Ba #Pres: 20  #Samp: 16
  [ ]  010. 008-ZD709-RockGuitar           Mute/Chrd/ #Pres: 19  #Samp: 20
  [ ]  011. 009-ZD710-MarimbaVibes         Marimbas   #Pres: 21  #Samp: 16
  [ ]  012. 059-ZD762-LinearSynthesis4     Pipeline   #Pres: 16  #Samp: 13
  [ ]  013. 900-ZD779A-SpectrumSynthEmaxSE SE Wave 1  #Pres: 50  #Samp: 41
  [ ]  014. 901-ZD780A-TransformMultiEm... TM tm      #Pres: 39  #Samp: 46
  [ ]  015. 902-ZD781A-DevUpdateEmaxSE     InstAttack #Pres: 100 #Samp: 142
  [ ]  016. 092-ZD804-Atmospheres          Combospher #Pres: 12  #Samp: 6
-----------------------------------------------------------------------------
[SPACE|001-127]Slct [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
[+]More [P]Presets_ [S]Samples_ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
-----------------------------------------------------------------------------
                           Please enter your choice:
```

18) We want to check the parameters and voices of preset P05 named "Slow Pan", so in the preset overview we select item number "06" and we press "D", which is the short cut key for getting preset details (we could also press ENTER and select the "Show Details" option in the menu).



19) The preset parameters and details are displayed now. Since the amount of information exceeds the size of the screen, we can scroll through the information by pressing the UP and DOWN keys or the PAGE UP and PAGE DOWN keys or the HOME and END keys on the keyboard.



20) After having scrolled down, we get a view on the remaining preset parameters. Let's leave the screen by pressing ESCAPE on the keyboard.

```
              EMAX-I PRESET DETAILS NARROWSTEREO  : P05 SLOW PAN
-------------------------------------------------------------------------------

..ARPEGGIATOR SETTINGS.............................................................
Arpeggiator on/off: Off                 Harmony 1:          Off
Tempo:              60.00               Harmony 2:          Off
Resolution:         1/8 triplet         Key Repeats:        1
Mode:               Forward Assign      Cruz Control:       On
Latch:              Off                 Glissando Control:  Off
No of Extensions:   3                   Velocity:           127
Interval:           m3: Minor third     Key Range:          A-1 -> C7

..MIDI SETTINGS....................................................................
Basic Channel:      1                   Notes/Wheels:       On
Port:               Out                 Left Wheel Control: Pwh (Pitch Bend)
Mode:               Omni                RightWheel Control: 1
Send Preset Change: Off                 Pedal Controller:   Off
Rcve Preset Change: On                  Pressure Control:   Chp (Aftertouch)
Sequencer Start:    Off                 MIDI A Controller:  Pwh (Pitch Bend)
Local Control:      On                  MIDI B Controller:  1

-------------------------------------------------------------------------------
       [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                          Please enter your choice:
```

21) We are back in the preset overview now. Let's get an overview of all voices in the preset by pressing "V" This is the "short cut key" for getting the voice overview...

```
                                EMAX-I PRESET OVERVIEW
      ------------------------------------------------------------------------------
        [ ]  01. P00  NarrowStereo     #Voice:10  Arpeg off  C1->C6     (no stack)
        [ ]  02. P01  Wide Stereo      #Voice:10  Arpeg off  C1->C6     (no stack)
        [ ]  03. P02  Arco Strings     #Voice:10  Arpeg off  C1->C6     (no stack)
        [ ]  04. P03  Whole KB Pan     #Voice:10  Arpeg off  C1->C6     (no stack)
        [ ]  05. P04  Vel Pan          #Voice:10  Arpeg off  C1->C6     (no stack)
       ]X[   06. P05  Slow Pan         #Voice:10  Arpeg off  C1->C6     (no stack)
        [ ]  07. P06  EtherealFish     #Voice:10  Arpeg off  C1->C6     (no stack)
        [ ]  08. P07  Surph Drone      #Voice:20  Arpeg off  C1->C6     (no stack)
        [ ]  09. P08  Flange Delay     #Voice:20  Arpeg off  C1->C6     (no stack)
        [ ]  10. P09  Flange Fast      #Voice:20  Arpeg off  C1->C6     (no stack)
        [ ]  11. P10  Mad Fiddlers     #Voice:10  Arpeg on   C1->C6     (no stack)
        [ ]  12. P11  Psyco Jazz       #Voice:20  Arpeg on   C1->C6     (no stack)
        [ ]  13. P12  Colosus          #Voice:20  Arpeg on   C1->C6     (no stack)
        [ ]  14. P13  Drone  G key     #Voice:11  Arpeg off  C1->C6     (no stack)
        [ ]  15. P14  Drone  E key     #Voice:11  Arpeg off  C1->C6     (no stack)
        [ ]  16. P15  Drone  C key     #Voice:11  Arpeg off  C1->C6     (no stack)
        [ ]  17. P16  Vel Switch 1     #Voice:20  Arpeg off  C1->C6     (no stack)
        [ ]  18. P17  Vel Switch 2     #Voice:20  Arpeg off  C1->C6     (no stack)
      ------------------------------------------------------------------------------
      [SPACE|01-27]Select ___________              [U/D]Scroll [ESC]Back__ [RET]Go____
      ________________ [D]Details_ [V]Voices__ [K]KeyAreas ___________ ___________
      ------------------------------------------------------------------------------
                                Please enter your choice:
```

1

2

22) We now see all voices of the preset. Let's explore one of these voices, e.g. voice V002 by selecting item "03" and pressing "D".

```
                              EMAX-I VOICE OVERVIEW
 ------------------------------------------------------------------------------
   [ ]  01. VOICE 000-Slow Pan     No chorus F:105 Q:00 SAMPLE 1   Orig: G1
   [ ]  02. VOICE 001-Slow Pan     No chorus F:105 Q:00 SAMPLE 2   Orig: E2
  ]X[   03. VOICE 002-Slow Pan     No chorus F:100 Q:00 SAMPLE 3   Orig: G3
   [ ]  04. VOICE 003-Slow Pan     No chorus F:100 Q:00 SAMPLE 4   Orig: C4
   [ ]  05. VOICE 004-Slow Pan     No chorus F:097 Q:00 SAMPLE 5   Orig: G4
   [ ]  06. VOICE 005-Slow Pan     No chorus F:100 Q:00 SAMPLE 6   Orig: C3
   [ ]  07. VOICE 006-Slow Pan     No chorus F:105 Q:00 SAMPLE 7   Orig: E5
   [ ]  08. VOICE 007-Slow Pan     No chorus F:098 Q:00 SAMPLE 8   Orig: E3
   [ ]  09. VOICE 008-Slow Pan     No chorus F:100 Q:10 SAMPLE 9   Orig: E4
   [ ]  10. VOICE 009-Slow Pan     No chorus F:105 Q:00 SAMPLE 10  Orig: G5

 ------------------------------------------------------------------------------
 [SPACE|01-10]Select ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
 ___________________ ___________ [D]Details_ [S]Samples_ ___________ ___________
 ------------------------------------------------------------------------------
                          Please enter your choice:
```

1

2

23) EMXP displays now all voice parameters and details of the selected voice. Again the amount of information exceeds the screen size, so we can scroll through the information by pressing the UP and DOWN keys or the PAGE UP and PAGE DOWN keys and HOME and END keys on the keyboard.

```
        EMAX-I VOICE DETAILS NARROWSTEREO   - P05 SLOW PAN : VOICE V002
------------------------------------------------------------------------------
..GENERAL PARAMETERS.............................................................

Voice Number:       V002              Tune:               18 Cents
Sample Number:      003               Delay:              0
Orig. Sample Note:  G3                Attenuation:        4 DB
Output Channels:    From 1 to 8       Chorus:             Off (Depth: 7)

..ENVELOPE AND FILTER SETTINGS...................................................
                    Atk Hld Dec Sus Rel                   Atk Hld Dec Sus Rel
VCA Envelope:       05  01  01  32  17 VCF Envelope:       01  01  01  32  05
Filter Cutoff Freq: 100               Filter Tracking:    0.00
Filter Resonance:   0                 Filter Env Amount:  0

..MODULATOR AND CONTROLLER BASIC SETTINGS.......................................

LFO Rate:           26                Panning L-->R:      0
LFO Variation:      1                 Keyboard Solo:      Off
LFO Delay:          11                Keyboard Transpose: Enabled

------------------------------------------------------------------------------
      [UP/DOWN]        [PGUP/PGDN]        [HOME/END]          [ESC]
------------------------------------------------------------------------------
                          Please enter your choice:
```

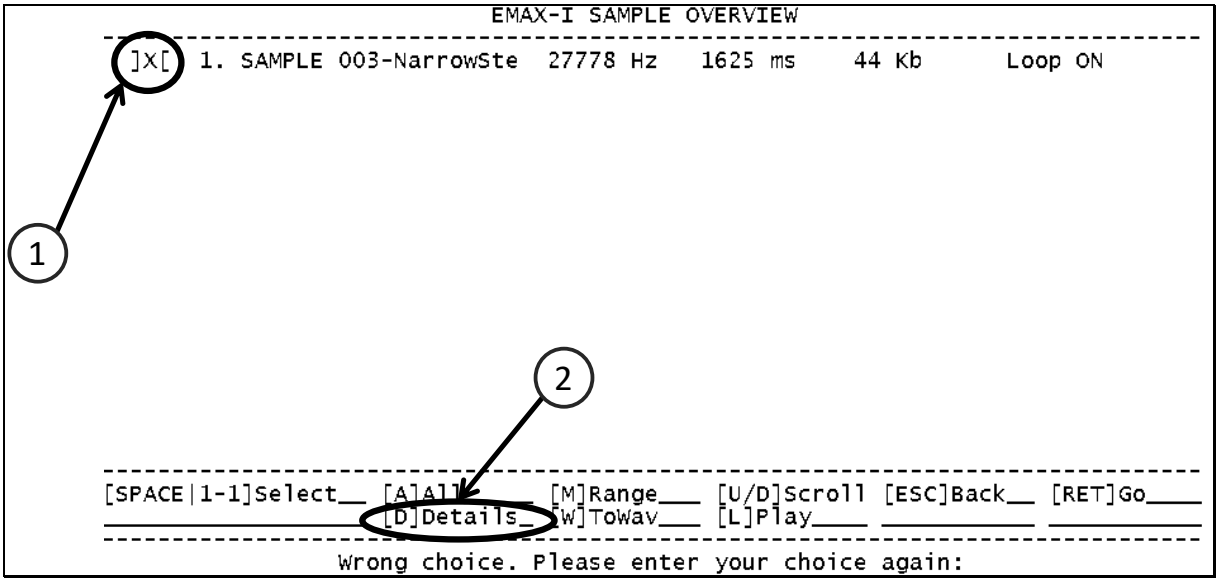
24) After having scrolled down, the remainder of the voice parameter information appears. We leave the screen by pressing ESCAPE on the keyboard.

```
        EMAX-I VOICE DETAILS NARROWSTEREO   - P05 SLOW PAN : VOICE V002
-------------------------------------------------------------------------------
..MODULATOR AND CONTROLLER ROUTING SETTINGS...................................

LFO TO...:                          AMOUNT:        ANY CONTROLLER TO LFO TO...:

VCA (Tremolo)                       10             Enabled
VCF Cutoff Frequency (Timbre)       0              Enabled
Pitch (Vibrato)                     0              Enabled
Panning                             15             (n/a)

VELOCITY TO...:                     AMOUNT:        ANY CONTROLLER TO...:

Level                               0              Enabled
VCF Cutoff Frequency                0              Enabled
VCF Resonance                       0              (n/a)
Pitch                               0              Enabled
VCA Attack                          15             Disabled
VCF Attack                          0              Disabled
Panning                             0              Enabled

-------------------------------------------------------------------------------
       [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                           Please enter your choice:
```

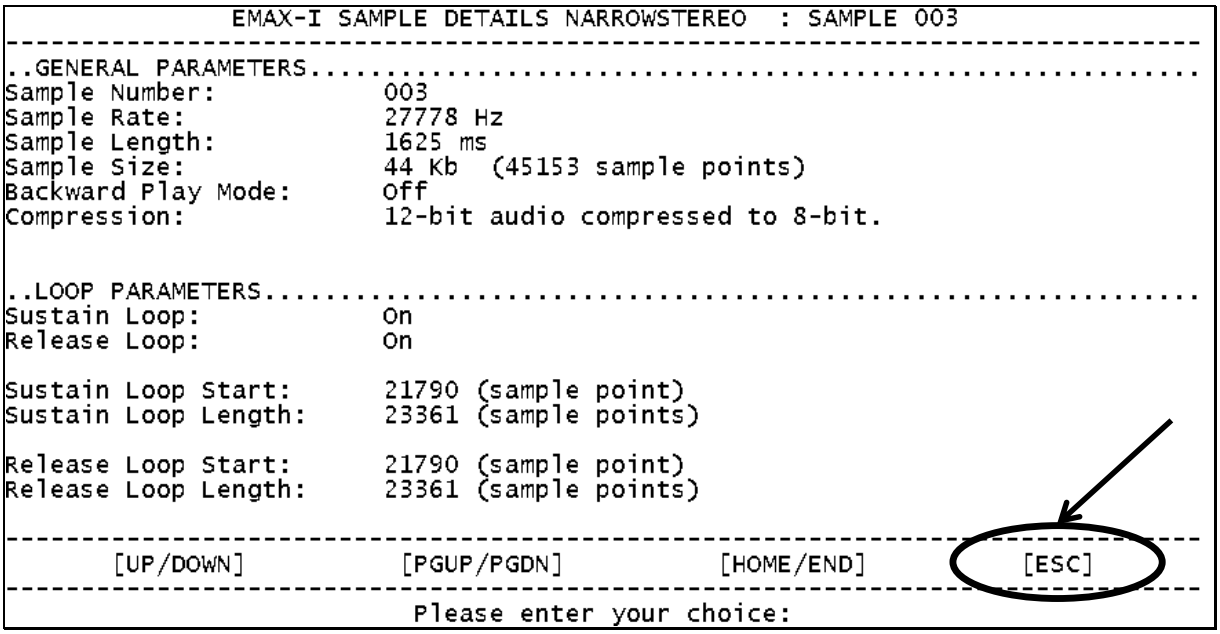
25) We are back in the voice overview now. Let's have a look at the samples of this voice. We press "S" to get a sample overview.

```
                                EMAX-I VOICE OVERVIEW
      -------------------------------------------------------------------------
        [ ]  01. VOICE 000-Slow Pan     No chorus F:105 Q:00 SAMPLE 1   Orig: G1
        [ ]  02. VOICE 001-Slow Pan     No chorus F:105 Q:00 SAMPLE 2   Orig: E2
        ]X[  03. VOICE 002-Slow Pan     No chorus F:100 Q:00 SAMPLE 3   Orig: G3
        [ ]  04. VOICE 003-Slow Pan     No chorus F:100 Q:00 SAMPLE 4   Orig: C4
        [ ]  05. VOICE 004-Slow Pan     No chorus F:097 Q:00 SAMPLE 5   Orig: G4
        [ ]  06. VOICE 005-Slow Pan     No chorus F:100 Q:00 SAMPLE 6   Orig: C3
        [ ]  07. VOICE 006-Slow Pan     No chorus F:105 Q:00 SAMPLE 7   Orig: E5
        [ ]  08. VOICE 007-Slow Pan     No chorus F:098 Q:00 SAMPLE 8   Orig: E3
        [ ]  09. VOICE 008-Slow Pan     No chorus F:100 Q:10 SAMPLE 9   Orig: E4
        [ ]  10. VOICE 009-Slow Pan     No chorus F:105 Q:00 SAMPLE 10  Orig: G5

      -------------------------------------------------------------------------
      [SPACE|01-10]Select ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
      ___________________ ___________ [D]Details_ [S]Samples_ ___________ ___________
      -------------------------------------------------------------------------
                                Please enter your choice:
```

26) On an EMAX-I sampler only one sample can be assigned to a single voice, so the sample overview of the voice contains only one sample. Let's select this sample by selecting the first item. To get the sample parameters, we press "D".



27) All sample parameters and sample details of the selected sample are shown now. To leave the screen we press the ESCAPE button on the keyboard.



28) This is the end of guided tour #1. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #2: FORMATTING AN EMAX-I FLOPPY DISK

In this guided tour, we will physically format a floppy disk for use in an EMAX-I sampler. We will also install an operating system on the formatted floppy disk.

Make sure you are using an internal floppy drive in your computer and make sure you have installed the OmniFlop driver before using EMAX-I, EMAX-II, Emulator-III, Emulator-IIIX or Akai S1000 floppy disks with EMXP.

1) After having started EMXP the main menu will appear. Since we want to format an EMU EMAX-I floppy disk, we select the first menu function by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------
                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences
-----------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                          Please enter a menu option:
```

2) The following menu gives access to all EMU objects. We will format a floppy disk for use in the EMAX-I, so we select the first menu function. But since floppy disks formatted for EMAX-I can be used in the EMAX-II as well (and vice versa), we could also have selected the second menu function..

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------
            1.  Manage EMU EMAX-I Files and Disks
            2.  Manage EMU EMAX-II Files and Disks
            3.  Manage EMU EMULATOR-I Files
            4.  Manage EMU EMULATOR-II Files and Disks
            5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
            6.  Manage EMU SP-12 Files
-----------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                          Please enter a menu option:
```

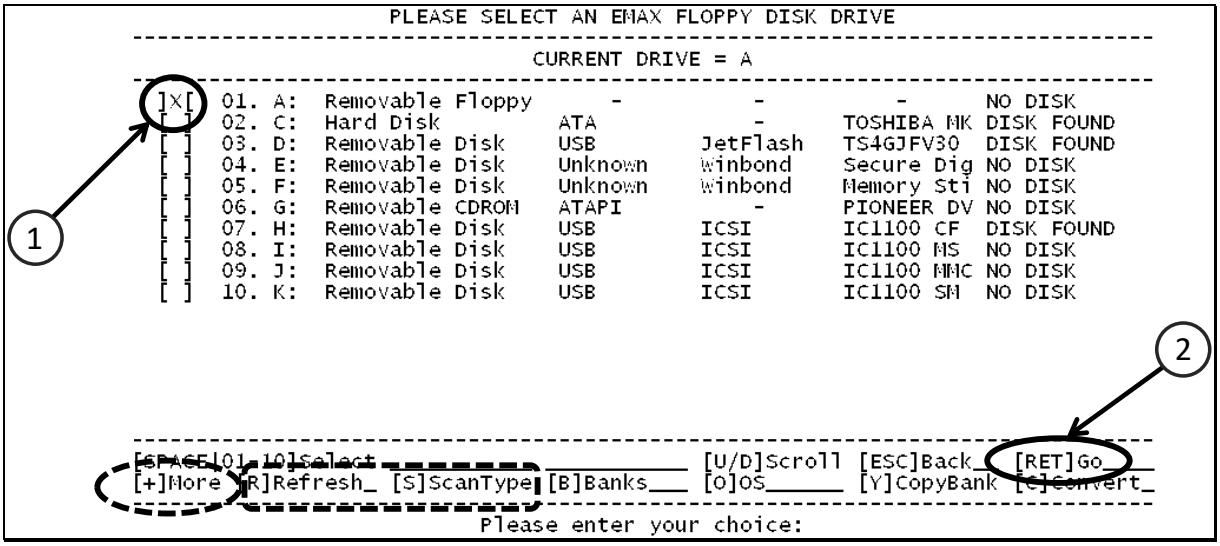
3) In the EMAX-I menu, we select the menu function 8 to get access to additional supported EMAX-I files and disks.

```
                              EMAX-I SAMPLER MENU
-------------------------------------------------------------------------------

            1.  Manage EMAX-I Bank Files

            2.  Manage EMAX-I EMX Files

            3.  Manage EMAX-I Operating System Files

            4.  Manage EMAX-I Hard Disk Images

            5.  Manage EMAX-I Hard Disks

            6.  Manage EMAX-I Floppy Disk Images

            7.  Manage EMAX-I HxC Floppy Disk Images

            8.  Manage other EMAX-I Files and Disks

            9.  Receive Banks or Samples from EMAX-I via RS422/MIDI

-------------------------------------------------------------------------------
             [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                           Please enter a menu option:
```

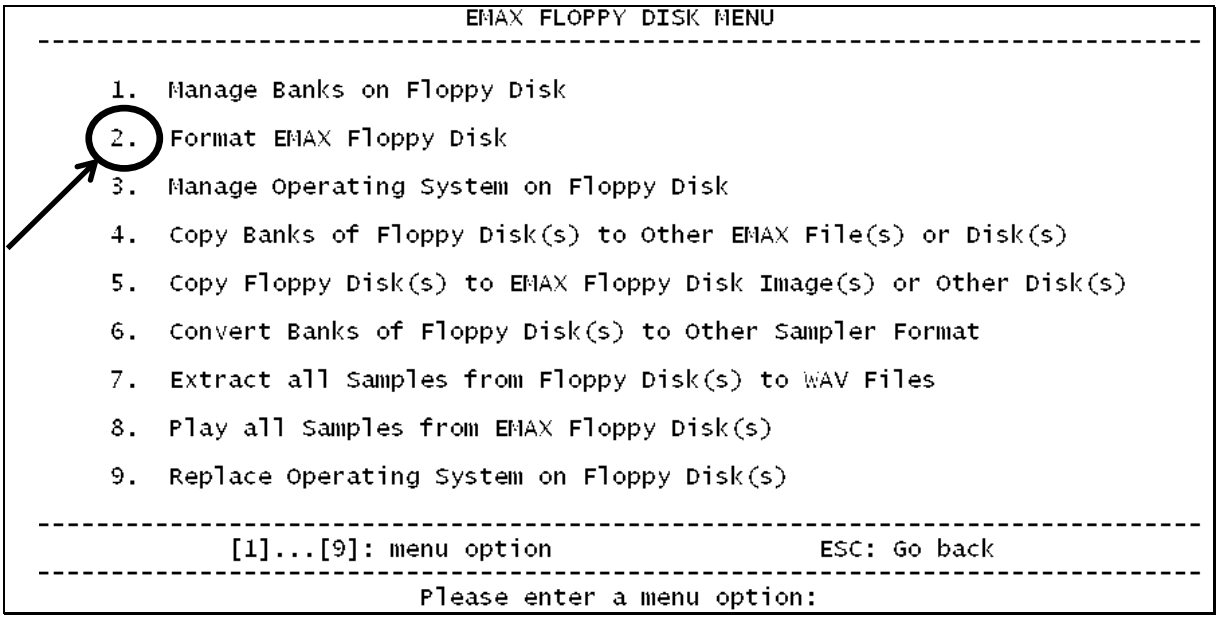
4) We now select function 2 to format an EMAX-I floppy disk.

```
                        EMAX-I ADDITIONAL SAMPLER MENU
-------------------------------------------------------------------------------

                     1.  Manage SoundDesigner for EMAX Files

                     2.  Manage EMAX-I/EMAX-II Floppy Disks









-------------------------------------------------------------------------------
             [1]...[2]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                           Please enter a menu option:
```

5) We have to select the floppy drive in which the disk will be formatted. EMXP displays an overview of all drives that are available in the computer. In our example the floppy drive is the first drive of the overview, so we select item 1. This can be done by moving the cursor ("] [") to the first line with the UP and DOWN keys on the keyboard, and pressing the SPACE bar to select the item. Alternatively we can simply enter "01" (or "1" followed by ENTER) on the keyboard to select the first drive. Once the drive is selected, we press ENTER to go the floppy drive menu. Instead of pressing ENTER, it's also possible to press the shortcut key "F" to immediately start the format process and bypass the floppy drive menu. *Note: all menu functions can be accessed directly via these shortcut keys. We can press "+" to scroll through all available shortcut keys at the bottom line of the screen. In addition we can also press "R" to refresh the drive overview (e.g. after we plugged another hard disk drive into an USB port) and we can press "S" to let EMXP detect which type of disk is inserted in each of the drives.*



6) The floppy menu appears now. We select menu function 2 to format the floppy disk. A faster way to start the format process is by pressing "F" in the drive overview screen of step 5.



7) We have to enter a (blank) floppy disk in the floppy drive. After having inserted a disk, we press any key (except "D" or ESCAPE). *We can still leave the format process by pressing ESCAPE. And if we want to change the drive before continuing, we can press "D" which will bring us back to the drive overview.*

```
                    PLEASE INSERT A TARGET DISK IN DRIVE A
--------------------------------------------------------------------------------

          Please insert a target disk in drive A and press ENTER
        or simply press ENTER if the currently inserted disk is OK
    The disk should be a double sided, double density (DSDD) floppy disk.
                Press [D] if you want to change the drive.
                      Press ESC if you want to leave.

--------------------------------------------------------------------------------
  [D]: Change Drive    [Any other character]: Disk Ready    [ESC]: Go back
--------------------------------------------------------------------------------
                                Press a key:
```

8) When formatting a disk, EMXP can install an operating system on the disk as well. EMXP is asking now which operating system we would like to copy to the floppy disk. In our example we will copy the Emax Plus OS labelled 10/16/89, so we select item 6 and press ENTER. *As an alternative we can choose NOT to install an operating system by selecting the first item in the overview (labelled "-- LEAVE OS BLANK --"). In that case the floppy disk can still be used on the EMAX-I sampler but only for loading/saving sound banks.*

```
              SELECT THE OPERATING SYSTEM THAT SHOULD BE ADDED TO THE EMAX
                FLOPPY DISK AFTER FORMATTING (OR LEAVE THE OS PART BLANK)
--------------------------------------------------------------------------------
                   CURRENT FOLDER = C:\Program Files\EMXP\Os\Emax I\
--------------------------------------------------------------------------------
   [ ]  1. -- LEAVE OS BLANK--
   [ ]  2. -- CHANGE FOLDER --
   [ ]  3. Emaxos_32                        EMAX       3.2
   [ ]  4. Emaxos_hd_11                     EMAX HD    1.1
   [ ]  5. Emaxos_plus_10                   EMAX PLUS  1.0
   [X]  6. Emaxos_plus_10_16_89             EMAX PLUS  10.16.89
   [ ]  7. Emaxos_plus_40                   EMAX PLUS  4.0
   [ ]  8. Emaxos_sehd_11                   EMAX HD-SE 1.1
   [ ]  9. Emaxos_se_11                     EMAX SE    1.1

--------------------------------------------------------------------------------
[SPACE|1-9]Select__ __________ __________ [ARW]Scroll [ESC]Back__ [RET]Go____
___________________ [N]SortName [T]SortTime [Z]SortSize ___________________
--------------------------------------------------------------------------------
                              Please enter your choice:
```

9) EMXP is checking the contents of the current floppy disk, and asks for a final confirmation. We agree and press "Y" on the keyboard.

```
                              PLEASE CONFIRM
-------------------------------------------------------------------------------


              The disk in drive A may contain important data.
           Formatting the disk in drive A to an EMAX floppy disk
                will destroy all data on that target disk.
                    Are you sure you want to continue ?
   Press [Y]es to format the disk or any other key to select another disk




-------------------------------------------------------------------------------
      [Y]: Yes                                  [Any other key]: No
-------------------------------------------------------------------------------
                          Choose [Y]es or [N]o:
```

10) EMXP is formatting the floppy disk now and will copy the selected operating system to the disk as well. This procedure can take a while and can not be interrupted !

```
                          FORMAT EMAX FLOPPY DISK
-------------------------------------------------------------------------------

                EMXP is formatting a new EMAX floppy disk.

                          This will take a while

                              Please wait...






-------------------------------------------------------------------------------
                                PLEASE WAIT
-------------------------------------------------------------------------------
          |||||||||||||||
```

11) The format process has completed. We can choose to format another disk (by pressing "Y") or we can leave the format function by pressing "N". We press "N".

```
                              PLEASE CONFIRM
-------------------------------------------------------------------------------


            A new EMAX floppy disk has been formatted in drive A
                You can add and remove data to/from it now.
              Do you want to format another EMAX floppy disk ?
        Press [Y]es to continue formatting or any other key to leave




-------------------------------------------------------------------------------
        [Y]: Yes                                  [Any other key]: No
-------------------------------------------------------------------------------
                            Choose [Y]es or [N]o:
```

12) This is the end of guided tour #2. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #3: FORMATTING AN EMAX-II HARD DISK

In this guided tour, we will format a hard disk for use in an EMAX-II sampler. We will also install an operating system on the hard disk.

1) After having started EMXP the main menu will appear. Since we want to format an EMU EMAX-II hard disk, we select the first menu function by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------

                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences




-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

2) The following menu gives access to all EMU objects. We will format a hard disk for use in the EMAX-II, so we select the second menu function.

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------

              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files




-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

3) In the EMAX-II menu, we select menu function 5 to "do something with" EMAX-II hard disks.

```
                          EMAX-II SAMPLER MENU
-------------------------------------------------------------------------------

              1.  Manage EMAX-II Bank Files

              2.  Manage EMAX-II EMX Files

              3.  Manage EMAX-II Operating System Files

              4.  Manage EMAX-II Hard Disk Images

              5.  Manage EMAX-II Hard Disks

              6.  Manage EMAX-II Floppy Disk Images

              7.  Manage EMAX-II HxC Floppy Disk Images

              8.  Manage EMAX-I/EMAX-II Floppy Disks

              9.  Receive Samples from EMAX-II via RS422/MIDI

-------------------------------------------------------------------------------
           [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                        Please enter a menu option:
```

4) We have to select the hard disk drive in which the disk will be formatted. EMXP displays an overview of all drives that are available in the computer. In our example the CF card drive is the E-drive in the overview, so we select item 3. This can be done by moving the cursor ("] [") to the first line with the UP and DOWN keys on the keyboard, and pressing the SPACE bar to select the item. Alternatively we can simply enter "03" (or "3" followed by ENTER) on the keyboard to select the first drive. Once the drive is selected, we press ENTER to go the hard disk menu. Instead of pressing ENTER, it's also possible to press the shortcut key "F" to immediately start the format process and bypass the hard disk menu. *Note: all menu functions can be accessed directly via these shortcut keys. We can press "+" to scroll through all available shortcut keys at the bottom line of the screen. In addition we can also press "R" to refresh the drive overview (e.g. after we plugged another hard disk drive into an USB port) and we can press "S" to let EMXP detect which type of disk is inserted in each of the drives. It's also possible to scan for SCSI2SD partitions on a drive by pressing "C", but that feature is explained in "GUIDED TOUR #5: COPYING AN EMAX-II BANK FROM ONE SCSI2SD PARTITION TO ANOTHER SCSI2SD PARTITION".*

```
                    PLEASE SELECT AN EMAX-II HARD DISK DRIVE
        ---------------------------------------------------------------------------
                                CURRENT DRIVE = E
        ---------------------------------------------------------------------------
          [ ]  1. C:  Hard Disk         ATA        Crucial_   CT750MX300 DISK FOUND
          [ ]  2. D:  Hard Disk         ATA        Crucial_   CT750MX300 DISK FOUND
          ]X[  3. E:  Removable Disk    USB        Generic-   Compact Fl DISK FOUND
          [ ]  4. F:  Removable CDROM   ATAPI      MATSHITA   DVD-RAM UJ NO DISK
          [ ]  5. G:  Removable CDROM   Unknown        -          -      NO DISK
          [ ]  6. I:  Removable Disk    USB        Generic-   SD/MMC     DISK FOUND
          [ ]  7. J:  Removable Disk    USB        Generic-   MS/MS-PRO  NO DISK
          [ ]  8. K:  Removable Disk    USB        Generic-   xD-Picture NO DISK
          [ ]  9. L:  Removable Disk    USB        Generic-   MicroSD/M2 NO DISK

        ---------------------------------------------------------------------------
        [SPACE|1-9]Select_____________ [U/D]Scroll [ESC]Back__ [RET]Go____
        [+]More [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_ [B]Banks___
        ---------------------------------------------------------------------------
                              Please enter your choice:
```

5) In the EMAX-II hard disk menu, we select menu function 2 to format a hard disk. *As explained in step 4, a faster method to start the format process is by pressing the "F" shortcut key in the drive overview screen.*

```
                          EMAX-II HARD DISK MENU
-------------------------------------------------------------------------------

        1.  Manage Banks on EMAX-II Hard Disk

        2.  Format EMAX-II Hard Disk

        3.  Manage Operating System on EMAX-II Hard Disk

        4.  Copy EMAX-II Hard Disk to EMAX-II Hard Disk Image (Backup)

        5.  Copy EMAX-II Hard Disk to other EMAX-II Hard Disk (Clone)

        6.  Show Details of EMAX-II Hard Disk




-------------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

6) We have to insert a hard disk in the drive now. After having inserted a disk, we press any key except "D" or ESCAPE. *We can still leave the format process by pressing ESCAPE. And if we want to change the drive before continuing, we can press "D" which will bring us back to the drive overview.*

```
                    PLEASE INSERT A TARGET DISK IN DRIVE E
-------------------------------------------------------------------------------

          Please insert a target disk in drive E and press ENTER
        or simply press ENTER if the currently inserted disk is OK
                Press [D] if you want to change the drive.
                      Press ESC if you want to leave.









-------------------------------------------------------------------------------
   [D]: Change Drive    [Any other character]: Disk Ready    [ESC]: Go back
-------------------------------------------------------------------------------
                                Press a key:
```

7) EMXP supports normal, un-partitioned hard disks as well as partitioned hard disks that can be used in a SCSI2SD board that may be installed in your EMAX-II sampler. In this example we will format a normal hard disk, for use with a simple SCSI CF card device (as a hard disk replacement unit). We select item number 1 and press ENTER.

```
              SELECT THE TYPE OF EMAX-II HARD DISK TO BE FORMATTED
-------------------------------------------------------------------------
          ]X[  1. Format a standard EMAX-II hard disk
          [ ]  2. Format a multi-device SCSI2SD EMAX-II hard disk
-------------------------------------------------------------------------
[SPACE|1-2]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------
                          Please enter your choice:
```

8) EMXP asks to which size we would like to format the hard disk. EMXP is recommending a size based on the physical size of the disk (see item number 1), but it's also possible to select a pre-defined size (item numbers 2 → 6) or to enter a size yourself (item number 7). We will use the recommended size, so we select item number 1 and press ENTER.

Notes:

- it's perfectly possible to format the hard disk to a size smaller than the actual physical size of the disk. It's also possible to do the opposite (format the disk to a larger size) but that's a dangerous practice so we don't recommend to do that.
- we have inserted a 1GB CF card, so EMXP recommends a size of 962MB. The maximum size EMXP will format an EMAX-II disk to is 1GB (no matter what the physical size of the disk is). Larger sizes don't make sense.

```
       SELECT THE SIZE THAT THE EMAX-II HARD DISK SHOULD BE FORMATTED TO
-------------------------------------------------------------------------
                    ]X[  1.   962MB (= recommended)
                    [ ]  2.    96MB (e.g. ZIP 100MB)
                    [ ]  3.   239MB (e.g. ZIP 250MB)
                    [ ]  4.   481MB (e.g. HD 512MB)
                    [ ]  5.   633MB (e.g. CD 650MB)
                    [ ]  6.   962MB (e.g. HD 1024MB)
                    [ ]  7.   Specify another size
-------------------------------------------------------------------------
[SPACE|1-7]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------
                          Please enter your choice:
```

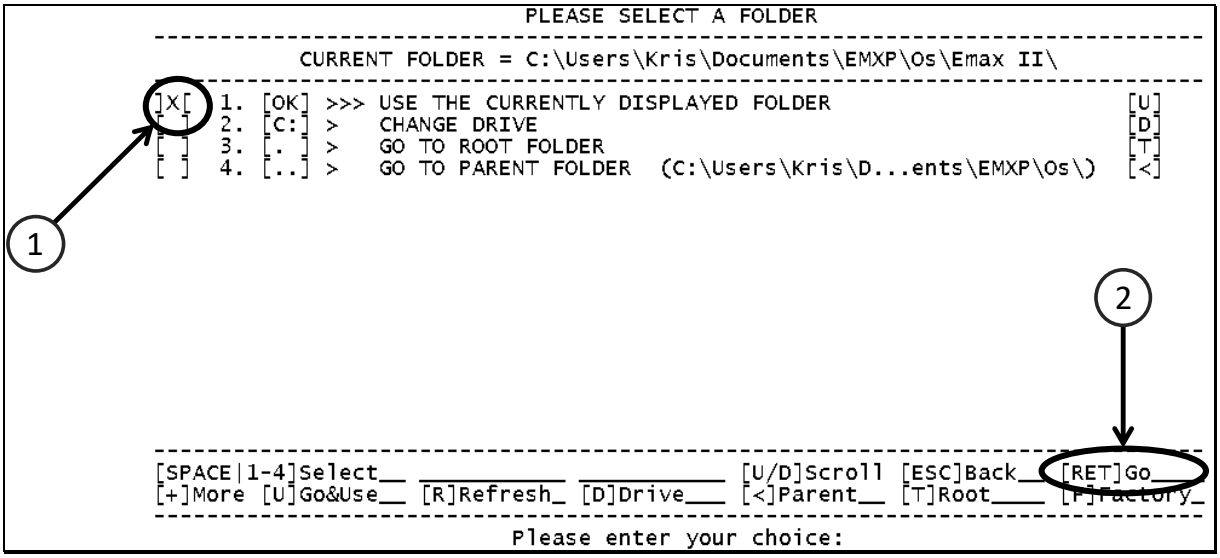
9) When formatting a disk, EMXP can install an operating system on the disk as well. EMXP is asking now which operating system we would like to copy to the hard disk. In our example we will copy the EMAX-II OS version 2.14, but this operating system file is not in the current "\Os" folder, so we will have to navigate to the correct folder first by selecting item number 2 and pressing ENTER. *As an alternative we can choose NOT to install an operating system by selecting the first item in the overview (labelled "-- LEAVE OS BLANK --"). In that case the hard disk can still be used on the EMAX-II sampler but only for loading/saving sound banks.*

```
          SELECT THE OPERATING SYSTEM THAT SHOULD BE ADDED TO THE EMAX-II
              HARD DISK AFTER FORMATTING (OR LEAVE THE OS PART BLANK)
-------------------------------------------------------------------------------
                 CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Os\
-------------------------------------------------------------------------------
   [ ]  1. -- LEAVE OS BLANK--
   ]x[  2. -- CHANGE FOLDER --
1
                                                                          2
-------------------------------------------------------------------------------
[SPACE|1-2]Select__ __________ __________ [ARW]Scroll [ESC]Back__ [RET]Go____
_________________ [N]SortName [T]SortTime [Z]SortSize __________ __________
-------------------------------------------------------------------------------
                            Please enter your choice:
```

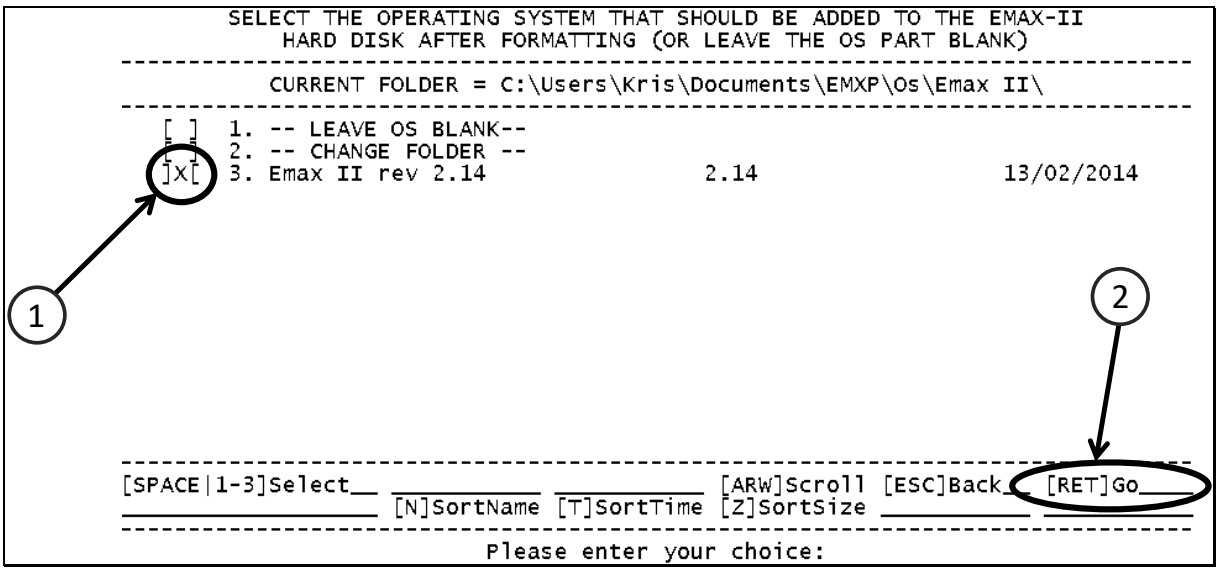
10) EMXP displays the folder overview of the current active folder. In our example the operating system file resides in the "\Emax II" subfolder of the current "\Os" folder. We select item number 7 and press ENTER to get an overview of the folders within the "\Emax II" folder.

```
                                PLEASE SELECT A FOLDER
-------------------------------------------------------------------------------
                 CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Os\
-------------------------------------------------------------------------------
[ ]  01. [OK] >>> USE THE CURRENTLY DISPLAYED FOLDER                      [U]
[ ]  02. [C:] >   CHANGE DRIVE                                            [D]
[ ]  03. [. ] >   GO TO ROOT FOLDER                                       [T]
[ ]  04. [..] >   GO TO PARENT FOLDER  (C:\Users\Kris\Documents\EMXP\)    [<]
[ ]  05.  |-> Akai
[ ]  06.  |-> Emax I
]x[  07.  |-> Emax II
[ ]  08.  |-> Emulator I
[ ]  09.  |-> Emulator II
[ ]  10.  |-> Emulator III
1                                                                         2
-------------------------------------------------------------------------------
[SPACE|01-10]Select __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More [U]Go&Use__ [R]Refresh_ [D]Drive___ [<]Parent__ [T]Root____ [F]Factory_
-------------------------------------------------------------------------------
                            Please enter your choice:
```

11) Note that after having selected the "\Emax II" folder, we don't get an overview of the *files* within that folder, but rather an overview of the *folders* within that folder. But we know that this is the folder containing the operating system files for the EMAX-II so we accept this folder by selecting item number 1 labelled "[OK] >>> USE THE CURRENTLY DISPLAYED FOLDER" and pressing ENTER. *Alternatively, it's also possible to simply select none of the items and to press ENTER. Or we could have pressed "U" instead of ENTER in step 10 when selecting item 7: this would have resulted immediately in the file overview screen of step 12.*



12) Now we get an overview of all EMAX-II operating system files in the selected folder. There's only one of these files in the folder and it's exactly the one we want to copy to the hard disk. So we select the file by selecting item number 3 and we press ENTER.



13) EMXP is checking the contents of the current hard disk, and asks for a confirmation to overwrite the disk. We agree and press "Y" on the keyboard.

```
                              PLEASE CONFIRM
-------------------------------------------------------------------------------



              The target disk in drive E is a FAT formatted disk
             It may be a very important disk used by your computer
               and it may contain valuable information or data.
            Formatting the disk in drive E to an EMAX-II hard disk
                 will destroy all data on that target disk.
                     Are you sure you want to continue ?
    Press [Y]es to format the disk or any other key to select another disk




-------------------------------------------------------------------------------
       [Y]: Yes                                  [Any other key]: No
-------------------------------------------------------------------------------
                          Choose [Y]es or [N]o:
```

14) Formatting a hard disk by mistake can have serious consequences. To avoid any accident, EMXP is asking for yet another confirmation. We accept the risk and press "Y" again.

```
                              PLEASE CONFIRM
-------------------------------------------------------------------------------



                        Are you really really sure ?
            This is your last chance to cancel the format process !
    Press [Y]es to format the disk or any other key to select another disk




-------------------------------------------------------------------------------
       [Y]: Yes                                  [Any other key]: No
-------------------------------------------------------------------------------
                          Choose [Y]es or [N]o: _
```

15) EMXP is formatting the hard disk now and will copy the selected operating system to the disk as well. This procedure can take a while and can not be interrupted !

```
                          FORMAT EMAX-II HARD DISK
-------------------------------------------------------------------------------

                 EMXP is formatting a new EMAX-II hard disk.

                          This will take a while

                              Please wait...









-------------------------------------------------------------------------------
                                 PLEASE WAIT
-------------------------------------------------------------------------------
          |||||||||||||||||||||||||||||||||||||||||||||
```

16) The format process has completed. We can choose to format another disk (by pressing "Y") or we can leave the format function by pressing "N". Since we won't format another disk, we press "N".

```
                                PLEASE CONFIRM
-------------------------------------------------------------------------------



            A new EMAX-II hard disk has been formatted in drive E
                 You can add and remove data to/from it now.

              Do you want to format another EMAX-II hard disk ?
        Press [Y]es to continue formatting or any other key to leave









-------------------------------------------------------------------------------
        [Y]: Yes                                [Any other key]: No
-------------------------------------------------------------------------------
                            Choose [Y]es or [N]o:
```

17) Let's validate now if the disk is indeed formatted for use in an EMAX-II sampler. We return to the EMAX-II menu and select menu function 5.

```
                          EMAX-II SAMPLER MENU
-------------------------------------------------------------------------------

              1.  Manage EMAX-II Bank Files

              2.  Manage EMAX-II EMX Files

              3.  Manage EMAX-II Operating System Files

              4.  Manage EMAX-II Hard Disk Images

              5.  Manage EMAX-II Hard Disks

              6.  Manage EMAX-II Floppy Disk Images

              7.  Manage EMAX-II HxC Floppy Disk Images

              8.  Manage EMAX-I/EMAX-II Floppy Disks

              9.  Receive Samples from EMAX-II via RS422/MIDI

-------------------------------------------------------------------------------
           [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                        Please enter a menu option:
```

18) EMXP displays an overview of all drives found in the computer, including the disk drive we have just formatted. We press "S" to scan the drives: EMXP is checking what type of disk is present in each of the drives. The disk in drive E is recognized now as EMAX-II instead of FAT (see rightmost column in the picture). Let's check the disk details by selecting item number 3 and pressing shortcut key "D".

```
                    PLEASE SELECT AN EMAX-II HARD DISK DRIVE
        -------------------------------------------------------------------------
                                CURRENT DRIVE = E
        -------------------------------------------------------------------------
          [ ]  1. C:  Hard Disk         ATA        Crucial_   CT750MX300 NTFS
          [ ]  2. D:  Hard Disk         ATA        Crucial_   CT750MX300 NTFS
          ]x[  3. E:  Removable Disk    USB        Generic-   Compact Fl EMAX-II
          [ ]  4. F:  Removable CDROM   ATAPI      MATSHITA   DVD-RAM UJ NO DISK
          [ ]  5. G:  Removable CDROM   Unknown        -          -      NO DISK
          [ ]  6. I:  Removable Disk    USB        Generic-   SD/MMC     FAT32
          [ ]  7. J:  Removable Disk    USB        Generic-   MS/MS-PRO  NO DISK
          [ ]  8. K:  Removable Disk    USB        Generic-   xD-Picture NO DISK
          [ ]  9. L:  Removable Disk    USB        Generic-   MicroSD/M2 NO DISK

        -------------------------------------------------------------------------
        [SPACE|1-9]Select_____________________________ [U/D]Scroll [ESC]Back__ [RET]Go____
        [+]More [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details [B]Banks___
        -------------------------------------------------------------------------
                                Please enter your choice:
```

19) EMXP displays the hard disk details now: indeed, the hard disk has been formatted for EMAX-II with a size of 962 MB (see formatted size), it's bootable because it contains an operating system (v2.14) and it does not contain any bank yet. We leave the screen by pressing ESCAPE on the keyboard.

```
                    EMAX-II HARD DISK DETAILS - DRIVE E
-------------------------------------------------------------------------------

  Hard disk in drive:      E
  Disk Size:               962 MB

  Sampler Type:            EMAX-II
  Formatted Size:          962 MB
  Used Space:              1 %
  Available Space:         99 %

  Number of Banks in Use:  0
  Available No of Banks:   100

  Operating System:        Emax II rev 2.14




-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                           Please enter your choice:
```

20) This is the end of guided tour #3. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #4: COPYING EMAX FLOPPY DISKS TO AN EMAX-II HARD DISK

In this guided tour, we will copy an EMAX-I floppy disk and a set of EMAX-II floppy disks to an empty EMAX-II hard disk. The EMAX-II floppy disk set consists of 2 floppy disks.

Make sure you are using an internal floppy drive in your computer and make sure you have installed the OmniFlop driver before using EMAX-I, EMAX-II, Emulator-III, Emulator-IIIX or Akai S1000 floppy disks with EMXP.

1) After having started EMXP the main menu will appear. Since we want to copy EMU EMAX floppy disks, we select the first menu function by pressing "1" on the keyboard of the computer.

```
EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
--------------------------------------------------------------------------------

                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences

--------------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
--------------------------------------------------------------------------------
                          Please enter a menu option:
```

2) The following menu gives access to all EMU objects. Since we want to copy both EMAX-I and EMAX-II floppy disks, we can select either the first or the second menu function. We go for the second one.

```
                              EMU SAMPLER MENU
--------------------------------------------------------------------------------

              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files

--------------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
--------------------------------------------------------------------------------
                          Please enter a menu option:
```

3) In the EMAX-II menu, we select menu function 8 to access the EMAX-I/EMAX-II floppy disks.

```
                         EMAX-II SAMPLER MENU
-------------------------------------------------------------------------------

              1.  Manage EMAX-II Bank Files

              2.  Manage EMAX-II EMX Files

              3.  Manage EMAX-II Operating System Files

              4.  Manage EMAX-II Hard Disk Images

              5.  Manage EMAX-II Hard Disks

              6.  Manage EMAX-II Floppy Disk Images

              7.  Manage EMAX-II HxC Floppy Disk Images

              8.  Manage EMAX-I/EMAX-II Floppy Disks

              9.  Receive Samples from EMAX-II via RS422/MIDI

-------------------------------------------------------------------------------
           [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                       Please enter a menu option:
```

4) We have to select the floppy drive now in which the floppy disks will be inserted. EMXP displays an overview of all drives that are available in the computer. In our example the floppy drive is the first drive of the overview, so we select item 1. This can be done by moving the cursor ("] [") to the first line with the UP and DOWN keys on the keyboard, and pressing the SPACE bar to select the item. Alternatively we can simply enter "01" (or "1" followed by ENTER) on the keyboard to select the first drive. Once the drive is selected, we press ENTER to go the floppy drive menu. Instead of pressing ENTER, it's also possible to press the shortcut key "Y" to immediately start the copy process and bypass the floppy drive menu. *Note: all menu functions can be accessed directly via these shortcut keys. We can press "+" to scroll through all available shortcut keys at the bottom line of the screen. In addition we can also press "R" to refresh the drive overview (e.g. after we plugged another hard disk drive into an USB port) and we can press "S" to let EMXP detect which type of disk is inserted in each of the drives.*

```
                       PLEASE SELECT AN EMAX FLOPPY DISK DRIVE
-------------------------------------------------------------------------------
                                CURRENT DRIVE = A
-------------------------------------------------------------------------------
 ]X[  01. A:  Removable Floppy      -          -          -       NO DISK
 [ ]  02. C:  Hard Disk          ATA           -      TOSHIBA MK  DISK FOUND
 [ ]  03. D:  Removable Disk     USB        JetFlash   TS4GJFV30   DISK FOUND
 [ ]  04. E:  Removable Disk     Unknown    Winbond    Secure Dig  NO DISK
 [ ]  05. F:  Removable Disk     Unknown    Winbond    Memory Sti  NO DISK
 [ ]  06. G:  Removable CDROM    ATAPI         -      PIONEER DV  NO DISK
 [ ]  07. H:  Removable Disk     USB        ICSI       IC1100 CF   DISK FOUND
 [ ]  08. I:  Removable Disk     USB        ICSI       IC1100 MS   NO DISK
 [ ]  09. J:  Removable Disk     USB        ICSI       IC1100 MMC  NO DISK
 [ ]  10. K:  Removable Disk     USB        ICSI       IC1100 SM   NO DISK

-------------------------------------------------------------------------------
[SPACE|01-10]Select                  ___________  [U/D]Scroll  [ESC]Back__  [RET]Go____
[+]More  [R]Refresh_  [S]ScanType  [B]Banks___  [O]OS______  [Y]CopyBank  [C]Convert_
-------------------------------------------------------------------------------
                          Please enter your choice:
```

5) After having selected the floppy drive, the floppy disk menu appears. We will have to copy more than one set of floppy disks, so we select menu function 4. This function will *keep* asking for more floppy disks to be copied (until we explicitly will break that loop by pressing ESCAPE). After selecting menu function 4, EMXP will check the disk in the floppy drive.

```
                          EMAX FLOPPY DISK MENU
-------------------------------------------------------------------------------

     1.  Manage Banks on Floppy Disk

     2.  Format EMAX Floppy Disk

     3.  Manage Operating System on Floppy Disk

     4.  Copy Banks of Floppy Disk(s) to Other EMAX File(s) or Disk(s)

     5.  Copy Floppy Disk(s) to EMAX Floppy Disk Image(s) or Other Disk(s)

     6.  Convert Banks of Floppy Disk(s) to Other Sampler Format

     7.  Extract all Samples from Floppy Disk(s) to WAV Files

     8.  Play all Samples from EMAX Floppy Disk(s)

     9.  Replace Operating System on Floppy Disk(s)

-------------------------------------------------------------------------------
            [1]...[9]: menu option                 ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

6) If there's no floppy disk inserted yet in the floppy drive, EMXP will ask to insert a floppy disk now. We insert an EMAX-II floppy disk and press ENTER.

```
                       PLEASE INSERT A DISK IN DRIVE A
-------------------------------------------------------------------------------

          There's no disk in drive A or the disk is not available.
               Please insert a disk in drive A and press ENTER
                 Press [D] if you want to change the drive.
                       Press ESC if you want to leave.









-------------------------------------------------------------------------------
  [D]: Change Drive    [Any other character]: Disk Ready    [ESC]: Go back
-------------------------------------------------------------------------------
                                Press a key:
```

7) EMXP verifies whether the floppy disk is an EMAX-I or EMAX-II floppy disk. Since we have inserted an EMAX-II floppy disk, EMXP will not complain. If another type of disk would have been inserted, EMXP would ask for another disk (not shown here).

```
                          CHECKING DISK IN DRIVE A
--------------------------------------------------------------------------------

                     EMXP is checking the disk in drive A

                        This can take a few seconds...

                                Please wait...









--------------------------------------------------------------------------------
                                 PLEASE WAIT
--------------------------------------------------------------------------------
```

8) We have to select the target disk type now. Since we will be copying EMAX floppy disks, the disks can either contain EMAX-I banks or EMAX-II banks. Even though we started the process from the EMAX-II sampler menu, EMXP does not know for sure that we will only insert EMAX-II floppy disks (and indeed, in our example we will also insert an EMAX-I floppy disk). Since the floppy disks will be copied to an EMAX-II hard disk, EMXP will have to convert EMAX-I banks to EMAX-II banks., while the EMAX-II floppy disks can simply be copied without any conversion.. We select item 17 and we press ENTER.

```
                        PLEASE SELECT A TARGET EMAX FILE/DISK TYPE
          ------------------------------------------------------------------------
           [ ]  01. Copy to EMAX Bank File(s)
           [ ]  02. Copy to EMAX-I Bank File(s) (and convert EMAX-II)
           [ ]  03. Copy to EMAX-II Bank File(s) (and convert EMAX-I)
           [ ]  04. Copy to EMAX EMX File(s)
           [ ]  05. Copy to EMAX-I EMX File(s) (and convert EMAX-II)
           [ ]  06. Copy to EMAX-II EMX File(s) (and convert EMAX-I)
           [ ]  07. Copy to EMAX-I Sounddesigner File(s) (and convert EMAX-II)
           [ ]  08. Copy to EMAX Floppy Disk Image File(s)
           [ ]  09. Copy to EMAX-I Floppy Disk Image File(s) (and convert EMAX-II)
           [ ]  10. Copy to EMAX-II Floppy Disk Image File (and convert EMAX-I)
           [ ]  11. Copy to EMAX HxC Floppy Image File
           [ ]  12. Copy to EMAX-I HxC Floppy Image (and convert EMAX-II)
           [ ]  13. Copy to EMAX-II HxC Floppy Image (and convert EMAX-I)
           [ ]  14. Copy to EMAX-I Hard Disk Image(s) (and convert EMAX-II)
           [ ]  15. Copy to EMAX-II Hard Disk Image (and convert EMAX-I)
           [ ]  16. Copy to EMAX-I Hard Disk (and convert EMAX-II)
           ]X[  17. Copy to EMAX-II Hard Disk(s) (and convert EMAX-I)
           [ ]  18. Copy to EMAX Floppy Disk(s)
          ------------------------------------------------------------------------
          [SPACE|01-18]Select ___________ ___________ [U/D]Scroll [ESC]Back___ [RET]Go____
          ------------------------------------------------------------------------
                                 Please enter your choice:
```

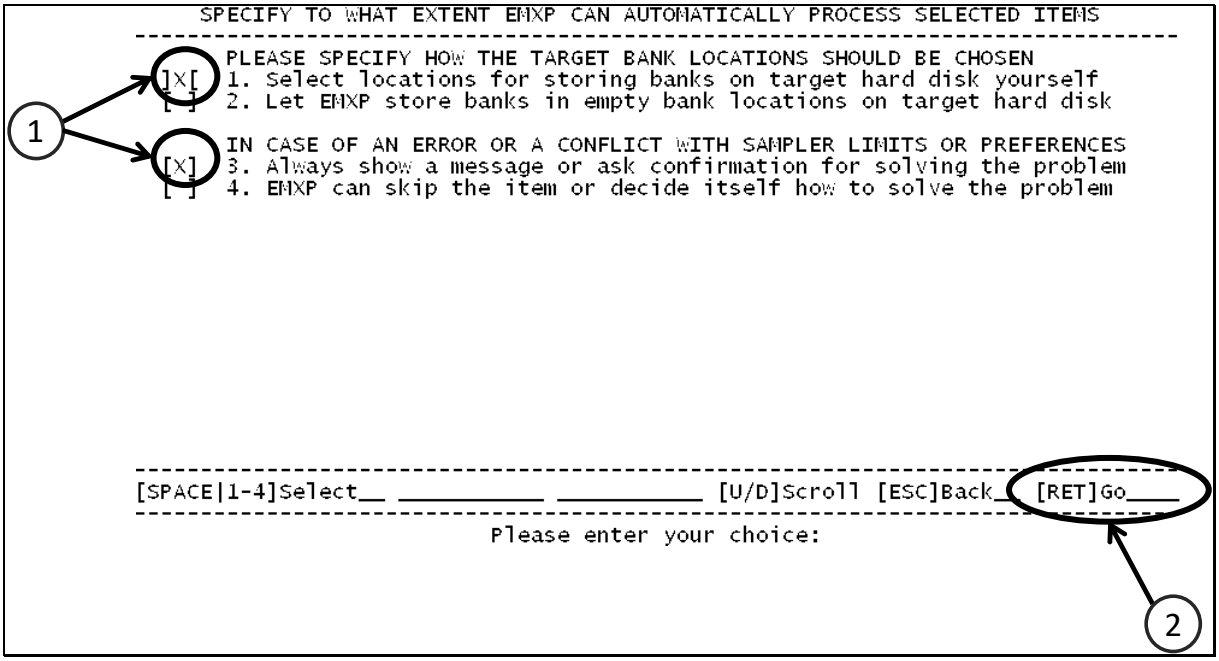
9) EMXP now asks whether the floppy disk copy process should be done in an automated (batch) mode with minimal user intervention, or rather in a fully controlled item-per-item manual mode. Let's go for the manual mode and let's enter all parameters that may be required for the copy process. We select the second item and press ENTER. *We only select the manual mode in this guided tour to illustrate all possibilities related to copying and converting sound banks. In most cases, the automated batch mode will be sufficient and it's a much faster way of working.*

```
                DEFINE WHETHER EMXP SHOULD COPY/CONVERT ITEMS AUTOMATICALLY OR NOT
        ---------------------------------------------------------------------------
        [ ]  1. Yes, copy/convert items as automated as possible            (BATCH)
        ]X[  2. No, user should have maximum control                       (MANUAL)
        [ ]  3. Use custom automation level                                 (BATCH)

                BATCH: All selected items will be copied/converted
                  automatically using the copy/conversion preferences, e.g.
                  for sample rates. You only have to specify the folder/disk where
                  the copied/converted items should be saved.
                MANUAL: You can define all copy/conversion parameters and
                  you can specify the destination (e.g. target file names) for each
                  copied/converted item. Define which parts of
                  the copy/conversion process should be manual or automated.
                SEMI-MANUAL: The current copy/conversion settings can be a
                  mix of manual and automated processing, as has been configured
                  previously in MANUAL or SEMI-MANUAL mode.

        [ ]  4. Don't show this screen anymore
        ---------------------------------------------------------------------------
        [SPACE|1-4]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
        ---------------------------------------------------------------------------
                                  Please enter your choice:
```

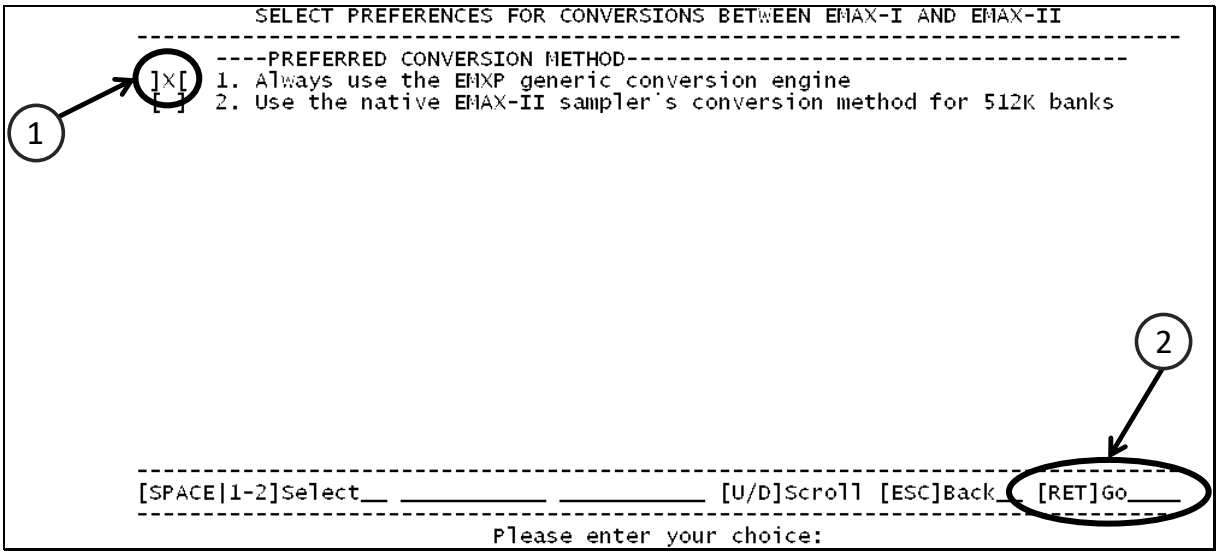
10) EMXP will now ask for *all parameters* that may be needed to perform the copy process of EMAX floppy disks to an EMAX-II hard disk. First we have to specify whether we want to perform a true (normal) copy, or rather a re-sampling of the sound banks of the floppy disks. We simply want to copy the disks, so we select item number 1 and press ENTER.

```
                SELECT PREFERENCES FOR COPYING EMAX BANKS TO EMAX-II FILES/DISKS
        ---------------------------------------------------------------------------
                WHEN BOTH SOURCE AND TARGET SAMPLER ARE EMAX-II:
        ]X[     1. Perform a normal copy from source to target
        [ ]     2. Perform a conversion (resizing/resampling) from source to target

        ---------------------------------------------------------------------------
        [SPACE|1-2]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
        ---------------------------------------------------------------------------
                                  Please enter your choice:
```

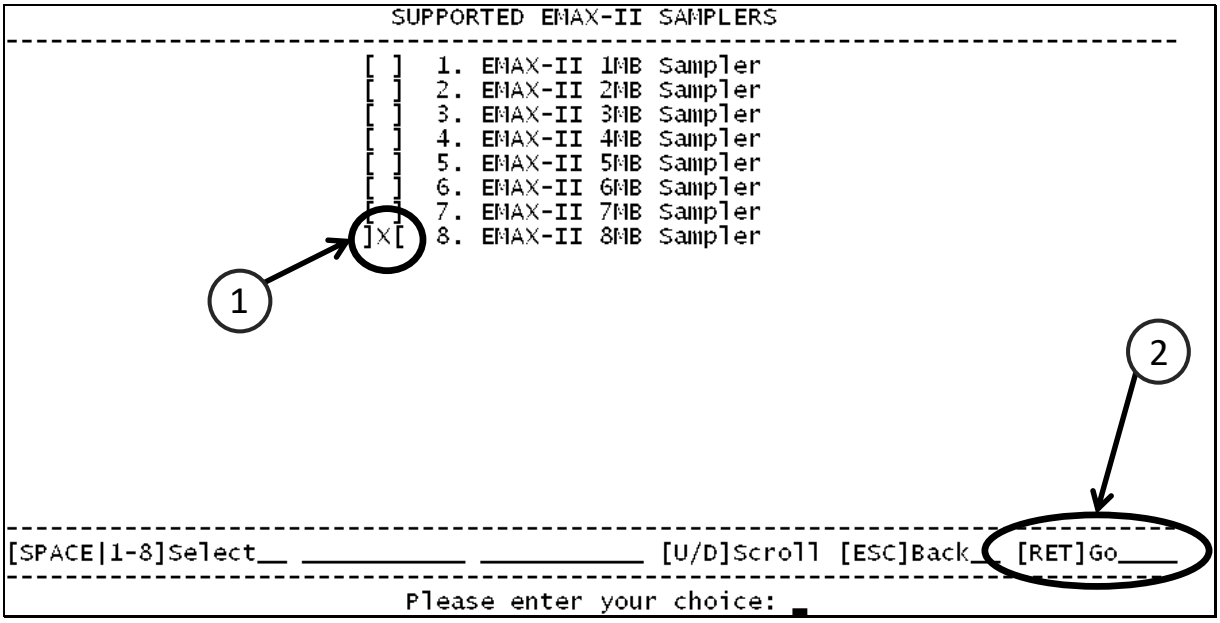
11) Next we have to specify to what extent EMXP can perform some tasks in an automated mode or rather in a user controlled mode. These tasks are (1) selecting the bank location on the target EMAX-II hard disk for each of the copied sound banks, and (2) dealing with exceptions and errors during the copy process. We want to have full control of the copy process, so we go for the user controlled options by selecting items 1 and 3 and pressing ENTER.



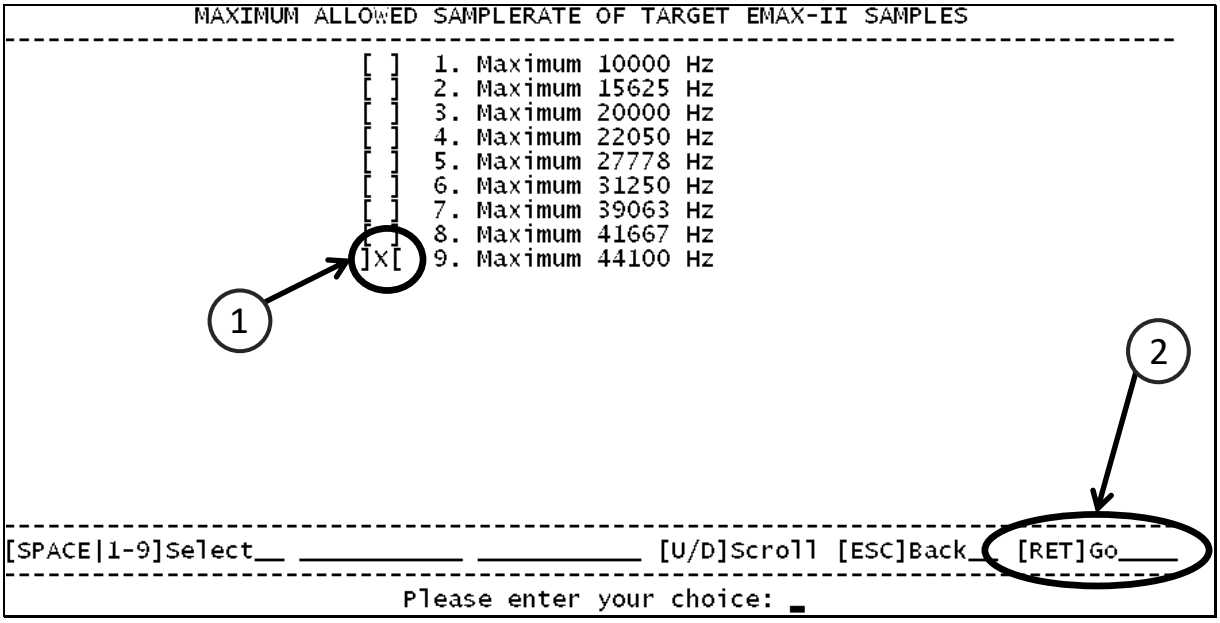
12) The next series of parameters are related to *conversions from EMAX-I floppy disks to EMAX-II banks on the hard disk.* Remember: EMXP does not know upfront that whether we will restrict the copy process to EMAX-II floppy disks or not. So it *assumes* that we may insert EMAX-I floppy disks as well, and these *have* to be converted in order to be copied to an EMAX-II hard disk (EMAX-II hard disks can not contain EMAX-I sound banks). For converting EMAX-I banks to EMAX-II banks, some conversion parameters must be specified. In our example we will indeed copy an EMAX-I floppy disk as well, so the values for the conversion parameters can be important. *If we are sure that we will only copy EMAX-II floppy disks, specifying these conversion parameters may be overkill. In that case it's much more efficient to select the fully automated or custom automated process flow in step 9*. The first parameter is the conversion engine that EMXP is supposed to use. We select the default generic engine (item 1) and press ENTER.



13) The next parameter is the size of the EMAX-II sampler in which the converted sound banks will be used. EMXP can try to reduce the size of the target sound banks and/or split the presets across multiple smaller banks in order to make them fit in the sampler's RAM. In our example we won't do any conversion so we don't really care about the target sampler's memory size. We simply select the maximum available memory size of 8MB (item 8) and press ENTER.



14) When converting from EMAX-I to EMAX-II, EMXP can also change the sample rate of the samples. A maximum and a minimum sample rate can be defined. For some samplers (like the EMAX-I) the maximum sample rate determines the transposition range for the samples. This is not the case for the EMAX-II, for which the maximum sample rate is only useful for compressing sound banks. Since we also don't need to decrease the size of the bank (which can also be obtained by reducing the maximum sample rate), we simply select the maximum sample rate available (44100 Hz, item 9) and press ENTER.



15) The minimum sample rate can be set as well. When converting sound banks, EMXP will never use sample rates lower than the one defined here, except if the original sample's sample rate is even lower. In our example we let EMXP keep the original sample's sample rate, so we select the highest minimum sample rate available: 44100 Hz (item 9) and press ENTER.

```
              MINIMUM ALLOWED SAMPLERATE OF TARGET EMAX-II SAMPLES
-----------------------------------------------------------------------------
              [ ]  1. Original sample rate or minimum 10000 Hz
              [ ]  2. Original sample rate or minimum 15625 Hz
              [ ]  3. Original sample rate or minimum 20000 Hz
              [ ]  4. Original sample rate or minimum 22050 Hz
              [ ]  5. Original sample rate or minimum 27778 Hz
              [ ]  6. Original sample rate or minimum 31250 Hz
              [ ]  7. Original sample rate or minimum 39063 Hz
              [ ]  8. Original sample rate or minimum 41667 Hz
              ]X[  9. Original sample rate or minimum 44100 Hz

-----------------------------------------------------------------------------
[SPACE|1-9]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
-----------------------------------------------------------------------------
                          Please enter your choice:
```

16) If any of the floppy disks we will copy contains an EMAX-I bank, EMXP should know how to convert the EMAX-I voice/output channel assignments. The EMAX-II does not support output channel assignments, it supports fully 6 polyphonic submix output channels instead. We choose the default option which will convert output channel assignments to EMAX-II submix channels assignments if the source sampler does not support submix channels (which is indeed the case for the EMAX-I). We select item 3 and press ENTER.

```
                DEFINE TO WHAT EXTENT THE ASSIGNMENT OF EMAX-II SUBMIX CHANNELS
                    SHOULD BE BASED ON THE VOICE CHANNEL ASSIGNMENT OF THE
                      SOURCE SAMPLER (EMAX-I) WHEN CONVERTING TO EMAX-II
          ---------------------------------------------------------------------------
           [ ]  1. Never consider EMAX-II submix channels as voice channels
           [ ]  2. Always consider EMAX-II submix channels as voice channels
           ]X[  3. Only consider EMAX-II submix channels as voice channels if the
                   source sampler does not support or use submix channels    (DEFAULT)

          ---------------------------------------------------------------------------
          [SPACE|1-3]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
          ---------------------------------------------------------------------------
                                  Please enter your choice:
```

17) Since we have decided to convert EMAX-I output channel assignments to EMAX-II submix channel assignments, we also have to specify how EMXP should deal with the difference in polyphony between the EMAX-I (8 voice polyphonic) and the EMAX-II (16 voice polyphonic). When treating EMAX-II submix channels as output channels, submix channel A is treated as output channel range 1→4, submix channel B as output channel range 5→8 and submix channel C is used for any 4-channel range between channels 9 and 16. Suppose channels 1→3 have been assigned to a voice in the EMAX-I bank: should this be "scaled up" by converting it to the virtual EMAX-II channels channel 1→6 (twice the polyphony) and hence been assigned only to the MAINS output since this range exceeds the max. virtual 4-channel range of any of the EMAX-II submix channels ? Or should it be converted to virtual EMAX-II channels 1→3 and hence been assigned to its submix channel A ? And if we decide to upscale the channel range, should an exception be made for mono channel assignments ? We decide to go for the default options (upscaling with an exception for mono channel assignments). We select items 1 and 4 and press ENTER.

```
          DEFINE HOW VOICE CHANNEL ASSIGNMENTS SHOULD BE CONVERTED IF THE NUMBER
                  OF AVAILABLE VOICE CHANNELS/POLYPHONY DIFFERS BETWEEN
             THE SOURCE SAMPLER (EMAX-I) AND THE TARGET SAMPLER (EMAX-II)
 ---------------------------------------------------------------------------
          HOW SHOULD VOICE CHANNEL ASSIGNMENTS BE CONVERTED ?
   ]X[    1. Increase or decrease channel range based on polyphony     (DEFAULT)
   [ ]    2. Increase channel range if target sampler polyphony is higher,
             otherwise keep channel range but limit it to target polyphony
   [ ]    3. Keep channel range but limit it to target sampler polyphony
             if target sampler polyphony is lower

          HOW DO OPTIONS 1 AND 2 APPLY TO MONO CHANNEL ASSIGNMENTS ?
   [X]    4. Mono channel assignments always result in mono channels   (DEFAULT)
   [ ]    5. Mono channel assignments can become multiple channel assignments
             if the target sampler's polyphony is higher

 ---------------------------------------------------------------------------
 [SPACE|1-5]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
 ---------------------------------------------------------------------------
                          Please enter your choice:
```

18) EMXP is asking for the drive of the target EMAX-II hard disk now. We are using a CF card formatted for the EMAX-II. It's a normal un-partitioned CF card and it doesn't contain any banks yet. We have inserted the CF card in a card reader which has been assigned drive letter H, so we select item 7 and press ENTER.

```
                        SELECT TARGET EMAX-II HARD DISK DRIVE
 ---------------------------------------------------------------------------
                                CURRENT DRIVE = H
 ---------------------------------------------------------------------------
   [ ]  01. A:  Removable Floppy      -          -          -      DISK FOUND
   [ ]  02. C:  Hard Disk         ATA            -      TOSHIBA MK DISK FOUND
   [ ]  03. D:  Removable Disk    USB        JetFlash   TS4GJFV30  DISK FOUND
   [ ]  04. E:  Removable Disk    Unknown    Winbond    Secure Dig NO DISK
   [ ]  05. F:  Removable Disk    Unknown    Winbond    Memory Sti NO DISK
   [ ]  06. G:  Removable CDROM   ATAPI          -      PIONEER DV NO DISK
   ]X[  07. H:  Removable Disk    USB        Generic-   Compact Fl DISK FOUND
   [ ]  08. I:  Removable Disk    USB        Generic-   SD/MMC     NO DISK
   [ ]  09. J:  Removable Disk    USB        Generic-   MS/MS-PRO  NO DISK
   [ ]  10. K:  Removable Disk    USB        Generic-   xD-Picture NO DISK
   [ ]  11. L:  Removable Disk    USB        Generic-   MicroSD/M2 NO DISK

 ---------------------------------------------------------------------------
 [SPACE|01-11]Select __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
 _________________ [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Detail__
 ---------------------------------------------------------------------------
                          Please enter your choice:
```

19) The copy (and convert) process will start now. EMXP checks whether a floppy disk has already been inserted in the drive. In our example, an EMAX-I floppy disk is indeed already available in the drive, so EMXP can immediately start reading the disk. This process can not be interrupted... we have to be patient.

```
PROCESSING ITEM 1/1 - READING EMAX FLOPPY DISK
--------------------------------------------------------------------------------

                    EMXP is reading the EMAX floppy disk

                      (disk 1/1 of bank NarrowStereo)

                              Please wait...



--------------------------------------------------------------------------------
                                 PLEASE WAIT
--------------------------------------------------------------------------------
          |||||||||||||||||||||||||||
```

20) The EMAX-I floppy disk has been read, and since an EMAX-I sound bank always fits on a single floppy disk, the entire sound bank is available now for being saved to the EMAX-II hard disk. We have to choose the target bank location on the disk. We simply select the first bank position (B00) by selecting item 001 and we press ENTER.

```
  PROCESSING ITEM 1/1 - CONVERTING EMAX-I BANK NARROWSTEREO FROM DISK IN A:
          PLEASE SELECT A TARGET LOCATION ON THE EMAX-II HARD DISK
-----------------------------------------------------------------------------
                ]X[  001. B00 --Empty Bank--          0 Kb
                [ ]  002. B01 --Empty Bank--          0 Kb
                [ ]  003. B02 --Empty Bank--          0 Kb
                [ ]  004. B03 --Empty Bank--          0 Kb
                [ ]  005. B04 --Empty Bank--          0 Kb
                [ ]  006. B05 --Empty Bank--          0 Kb
                [ ]  007. B06 --Empty Bank--          0 Kb
                [ ]  008. B07 --Empty Bank--          0 Kb
                [ ]  009. B08 --Empty Bank--          0 Kb
                [ ]  010. B09 --Empty Bank--          0 Kb
                [ ]  011. B10 --Empty Bank--          0 Kb
                [ ]  012. B11 --Empty Bank--          0 Kb
                [ ]  013. B12 --Empty Bank--          0 Kb
                [ ]  014. B13 --Empty Bank--          0 Kb
                [ ]  015. B14 --Empty Bank--          0 Kb
                [ ]  016. B15 --Empty Bank--          0 Kb
                [ ]  017. B16 --Empty Bank--          0 Kb
                [ ]  018. B17 --Empty Bank--          0 Kb
-----------------------------------------------------------------------------
[SPACE|001-100]Slct ___________ ___________ [U/D]Scroll [ESC]Back___ [RET]Go____
-----------------------------------------------------------------------------
                     Please choose a target bank:
```

1

2

21) EMXP is saving the sound bank to the hard disk now.

```
PROCESSING ITEM 1/1 - WRITING TO EMAX-II HARD DISK
------------------------------------------------------------------------------

                EMXP is writing to the EMAX-II hard disk

                              (bank B00)

                            Please wait...

------------------------------------------------------------------------------
                              PLEASE WAIT
------------------------------------------------------------------------------
          |||||||||||||||||||||||||||||
```

22) After the EMAX-I disk has been copied and converted successfully to the hard disk, EMXP is asking for another (set of) floppy disk(s) to be copied. In our example we indeed want to copy also a set of 2 EMAX-II floppy disks for a bank called "ATMOSPHERES". *For the sake of the example, we insert the SECOND disk of this floppy disk set first, which is of course a mistake...* After having inserted the floppy disk, we press ENTER (or any other key except "D" and ESCAPE)

```
PLEASE INSERT THE NEXT EMAX FLOPPY DISK OR PRESS ESCAPE
------------------------------------------------------------------------------

          Please insert a disk in drive A and press ENTER
     or simply press ENTER if the currently inserted disk is OK
            Press [D] if you want to change the drive.
                  Press ESC if you want to leave.

------------------------------------------------------------------------------
  [D]: Change Drive    [Any other character]: Disk Ready    [ESC]: Go back
------------------------------------------------------------------------------
                              Press a key:
```

23) EMXP detects that we didn't insert *the first disk* of the 2-disk set, so it explicitly asks for the first disk now. *For the sake of the example, we don't replace the second disk by the first disk yet, and simply press ENTER.*

```
          EMXP IS PROCESSING A BANK WHICH SPANS MULTIPLE FLOPPY DISKS
         PLEASE INSERT FLOPPY DISK 1 OF 2 OF EMAX-II BANK ATMOSPHERES
-------------------------------------------------------------------------------

                Please insert a disk in drive A and press ENTER
          or simply press ENTER if the currently inserted disk is OK
                  Press [D] if you want to change the drive.
                        Press ESC if you want to leave.

-------------------------------------------------------------------------------
   [D]: Change Drive    [Any other character]: Disk Ready    [ESC]: Go back
-------------------------------------------------------------------------------
                                  Press a key:
```

24) EMXP still doesn't find the first disk in the floppy drive, so a warning is displayed. We skip this warning by pressing any key.

```
                                  WARNING
-------------------------------------------------------------------------------

                    The floppy disk you have inserted
             is not floppy disk 1 of 2 of EMAX-II bank ATMOSPHERES
                   Please insert another floppy disk.
                      Press any key to continue...

-------------------------------------------------------------------------------
     [Any key]: Continue                          [ESC]: Skip warnings
-------------------------------------------------------------------------------
                         Press a key (or ESC)...:
```

25) Again EMXP asks for the correct (first) floppy disk to be entered. We finally insert the correct disk and press ENTER.

```
EMXP IS PROCESSING A BANK WHICH SPANS MULTIPLE FLOPPY DISKS
PLEASE INSERT FLOPPY DISK 1 OF 2 OF EMAX-II BANK ATMOSPHERES
--------------------------------------------------------------------------

Please insert another disk in drive A and press ENTER
Press [D] if you want to change the drive.
Press ESC if you want to leave.

--------------------------------------------------------------------------
[D]: Change Drive   [Any other character]: Disk Ready   [ESC]: Go back
--------------------------------------------------------------------------
                          Press a key:
```

26) EMXP is reading the first disk of bank "ATMOSPHERES" now. This process can not be interrupted.

```
PROCESSING ITEM 2/2 - READING EMAX FLOPPY DISK
--------------------------------------------------------------------------

EMXP is reading the EMAX floppy disk

(disk 1/2 of bank ATMOSPHERES)

Please wait...

--------------------------------------------------------------------------
                          PLEASE WAIT
--------------------------------------------------------------------------
|||||||||||||||||||||
```

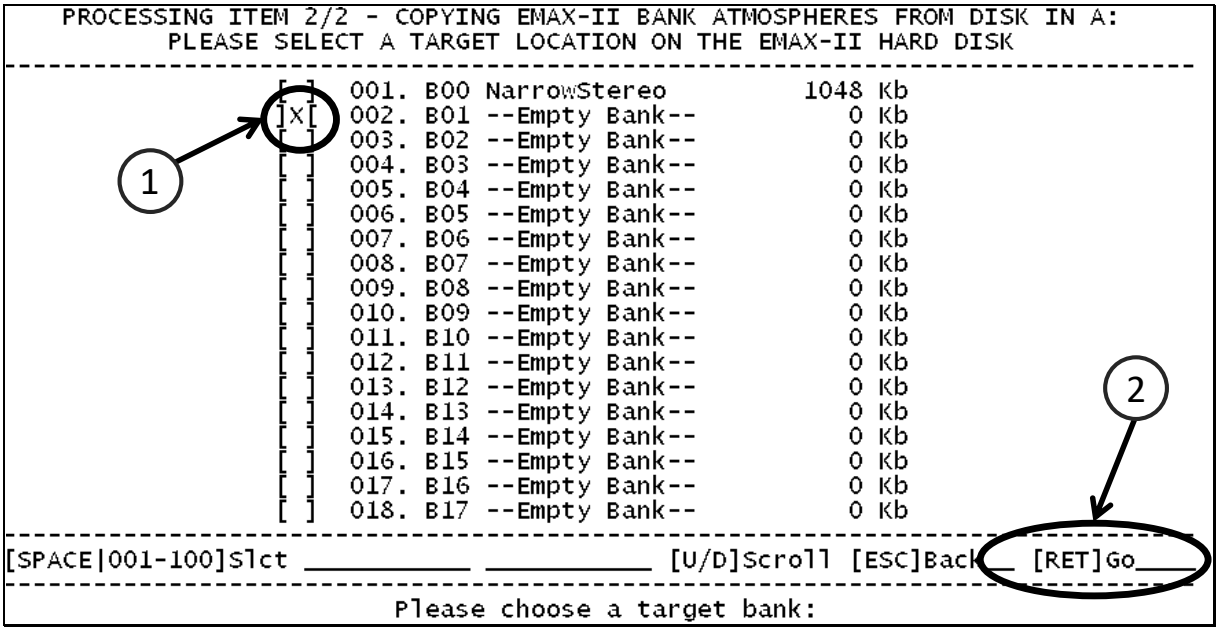
27) After the first disk has been read into memory, we have to insert the second disk and press ENTER.

```
EMXP IS PROCESSING A BANK WHICH SPANS MULTIPLE FLOPPY DISKS
PLEASE INSERT FLOPPY DISK 2 OF 2 OF EMAX-II BANK ATMOSPHERES
-------------------------------------------------------------------------------

Please insert a disk in drive A and press ENTER
or simply press ENTER if the currently inserted disk is OK
Press [D] if you want to change the drive.
Press ESC if you want to leave.

-------------------------------------------------------------------------------
[D]: Change Drive   [Any other character]: Disk Ready   [ESC]: Go back
-------------------------------------------------------------------------------
Press a key:
```

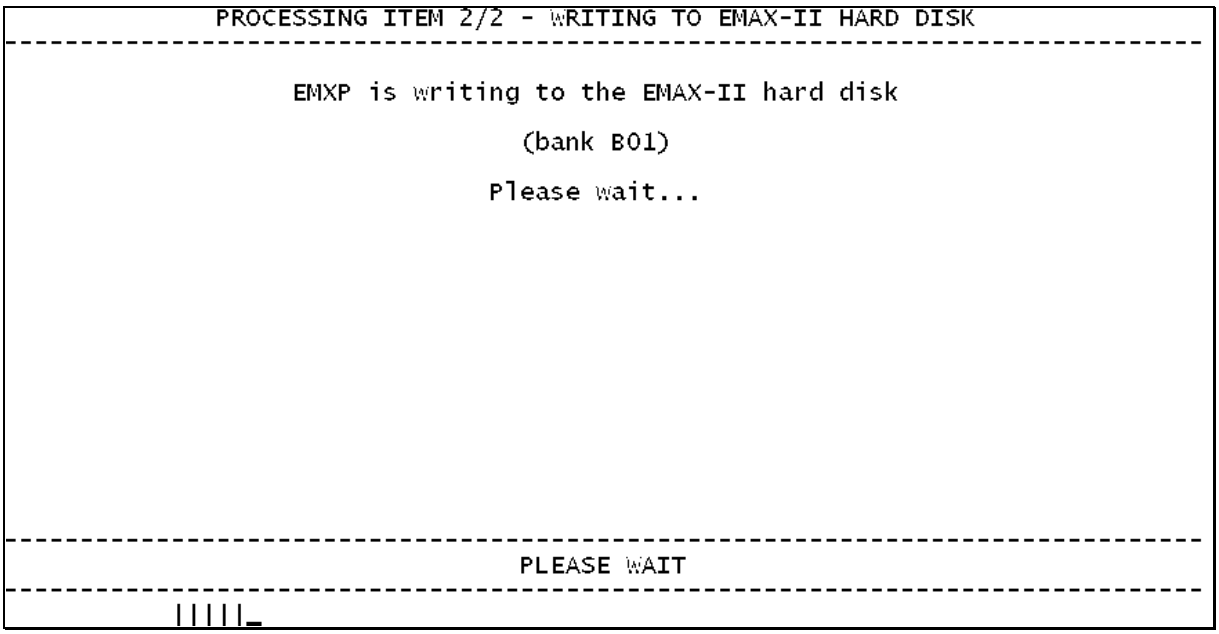
28) EMXP is reading the second disk into memory now. Again this process can not be interrupted...

```
PROCESSING ITEM 2/2 - READING EMAX FLOPPY DISK
-------------------------------------------------------------------------------

EMXP is reading the EMAX floppy disk

(disk 2/2 of bank ATMOSPHERES)

Please wait...

-------------------------------------------------------------------------------
PLEASE WAIT
-------------------------------------------------------------------------------
|||||||||||||||||||||||||||||
```

29) The two disks have been read, so the whole sound bank is available now for being saved to the EMAX-II hard disk. We have to choose the target bank location on the disk. We select the second bank position (B01) by selecting item 002 and we press ENTER.



30) EMXP is saving the sound bank to the hard disk now.



31) After the second set of disks has been successfully copied to the hard disk, EMXP is asking for yet another (set of) floppy disk(s) to be copied. We don't have any disks to be copied anymore, so we press ESCAPE to leave the copy process.

```
          PLEASE INSERT THE NEXT EMAX FLOPPY DISK OR PRESS ESCAPE
-------------------------------------------------------------------------------

              Please insert a disk in drive A and press ENTER
        or simply press ENTER if the currently inserted disk is OK
                Press [D] if you want to change the drive.
                      Press ESC if you want to leave.

-------------------------------------------------------------------------------
  [D]: Change Drive    [Any other character]: Disk Ready    [ESC]: Go back
-------------------------------------------------------------------------------
                                Press a key:
```

32) We decided to quit the copy process, so EMXP displays a copy execution report now. This report explains which source disks have been copied and/or converted to which banks on the target disk. The report has been saved to disk as well, the location and the name of the report on the computer's disk can be found at the end of the report. We scroll in the report by pressing the UP and DOWN keys or the PAGE UP and PAGE DOWN keys or the HOME and END keys.

```
              REPORT: COPY/CONVERSION TO EMAX-II HARD DISK(S)
-------------------------------------------------------------------------------
 3 source floppy disks have been processed

 -------------------------------------------------------------------------------
 SUBREPORT 1 of 2:
 -------------------------------------------------------------------------------

 EMAX-I floppy disk (Bank NarrowStereo):
   disk in drive A
 ...HAS BEEN CONVERTED TO...
 Bank B000 NarrowStereo on EMAX-II hard disk:
   disk in drive H
 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
 CONVERSION REPORT:

 EMAX-I bank "NarrowStereo"
   has been translated to 1 EMAX-II banks.

 - 0 presets have NOT been translated (see end of report).
 - 0 samples have NOT been translated (see end of report).
-------------------------------------------------------------------------------
     [UP/DOWN]        [PGUP/PGDN]        [HOME/END]        [ESC]
-------------------------------------------------------------------------------
                        Please enter your choice:
```

33) Since the first floppy disk contained an EMAX-I sound bank which had to be converted to the EMAX-II format before being copied to the EMAX-II hard disk, the report also shows some details about the conversion results. We keep scrolling down in the report by pressing the DOWN, PAGE DOWN or END key.

```
                REPORT: COPY/CONVERSION TO EMAX-II HARD DISK(S)
-------------------------------------------------------------------------------
  CONVERSION REPORT:

  EMAX-I bank ¨NarrowStereo¨
    has been translated to 1 EMAX-II banks.

  - 0 presets have NOT been translated (see end of report).
  - 0 samples have NOT been translated (see end of report).
  - 0 voices have NOT been translated (see end of report).

  All stereo voices have been preserved as PRI & SEC Emax voices.

  EMAX-II bank overview:

  Bank 1: NarrowStereo
    Presets:
      P00 NarrowStereo (original: P000)
      P01 Wide Stereo  (original: P001)
      P02 Arco Strings (original: P002)
      P03 Whole KB Pan (original: P003)
-------------------------------------------------------------------------------
      [UP/DOWN]        [PGUP/PGDN]        [HOME/END]        [ESC]
-------------------------------------------------------------------------------
                         Please enter your choice:
```

34) The last part of the report contains the results of the copy process of the EMAX-II set of floppy disks... We leave the report by pressing ESCAPE.

```
                REPORT: COPY/CONVERSION TO EMAX-II HARD DISK(S)
-------------------------------------------------------------------------------

  ---------------------------------------------------------------------------
  SUBREPORT 2 of 2:
  ---------------------------------------------------------------------------

  EMAX-II floppy disks (Bank ATMOSPHERES):
    disk #1 (1) in drive A
    disk #2 (2) in drive A
  ...HAVE BEEN COPIED TO...
  Bank B001 ATMOSPHERES on EMAX-II hard disk:
    disk in drive H

  ---------------------------------------------------------------------------
  The full report has been written to file:
   EMXPCOPY2EMAXIILOG_20200621103641812.TXT
  which can be found in:
   C:\Program Files\EMXP\Logs\
  ---------------------------------------------------------------------------

-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                         Please enter your choice:
```

35) Let's check whether the two banks from the 3 floppy disks have indeed be saved successfully to the hard disk. We return to the EMAX-II sampler menu by pressing ESCAPE a few times, and we select menu function 5 to check the contents of the EMAX-II hard disk.

```
                          EMAX-II SAMPLER MENU
-------------------------------------------------------------------------------

                1.  Manage EMAX-II Bank Files

                2.  Manage EMAX-II EMX Files

                3.  Manage EMAX-II Operating System Files

                4.  Manage EMAX-II Hard Disk Images

                5.  Manage EMAX-II Hard Disks

                6.  Manage EMAX-II Floppy Disk Images

                7.  Manage EMAX-II HxC Floppy Disk Images

                8.  Manage EMAX-I/EMAX-II Floppy Disks

                9.  Receive Samples from EMAX-II via RS422/MIDI

-------------------------------------------------------------------------------
            [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                         Please enter a menu option:
```

36) We select the EMAX-II hard disk drive, which is still drive H. So we select item number 7 and press shortcut key "B" to immediately get an overview of the banks on the disk.

```
                      PLEASE SELECT AN EMAX-II HARD DISK DRIVE
        -------------------------------------------------------------------------
                                   CURRENT DRIVE = H
        -------------------------------------------------------------------------
          [ ]  01. A:  Removable Floppy      -          -          -      DISK FOUND
          [ ]  02. C:  Hard Disk         ATA            -      TOSHIBA MK DISK FOUND
          [ ]  03. D:  Removable Disk    USB        JetFlash   TS4GJFV30  DISK FOUND
          [ ]  04. E:  Removable Disk    Unknown    winbond    Secure Dig NO DISK
          [ ]  05. F:  Removable Disk    Unknown    winbond    Memory Sti NO DISK
          [ ]  06. G:  Removable CDROM   ATAPI          -      PIONEER DV NO DISK
          ]X[  07. H:  Removable Disk    USB        Generic-   Compact Fl DISK FOUND
          [ ]  08. I:  Removable Disk    USB        Generic-   SD/MMC     NO DISK
          [ ]  09. J:  Removable Disk    USB        Generic-   MS/MS-PRO  NO DISK
          [ ]  10. K:  Removable Disk    USB        Generic-   xD-Picture NO DISK
          [ ]  11. L:  Removable Disk    USB        Generic-   MicroSD/M2 NO DISK
        -------------------------------------------------------------------------
        [SPACE|01-11]Select __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go___
        [+]More [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_ [B]Banks__
        -------------------------------------------------------------------------
                                Please enter your choice:
```

37) EMXP displays now an overview of all banks on the EMAX-II hard disk. Indeed, the two banks from the 3 floppy disks have been successfully copied to the hard disk ! Let's leave this overview screen by pressing ESCAPE.

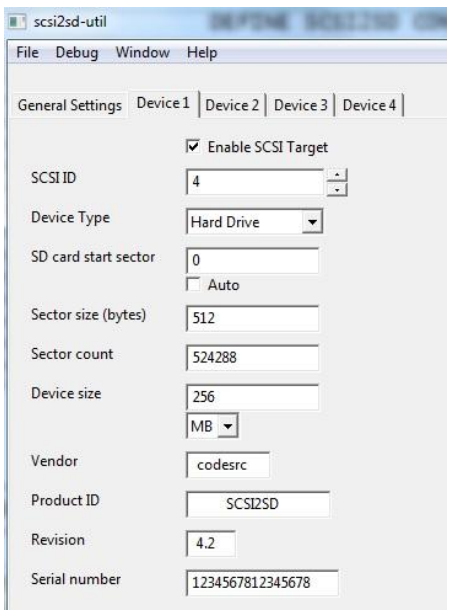
```
                        EMAX-II HARD DISK BANK OVERVIEW
-------------------------------------------------------------------------------
  ] [  1. B00 NarrowStereo       EMAX-II   #Pres: 27  #Samp: 11  1048 Kb
  [ ]  2. B01 ATMOSPHERES        EMAX-II   #Pres: 15  #Samp: 6   1042 Kb
-------------------------------------------------------------------------------
[SPACE|1-2]Select__ [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ __________
__________________ __________ __________ __________ __________ __________
-------------------------------------------------------------------------------
                            Please enter your choice:
```

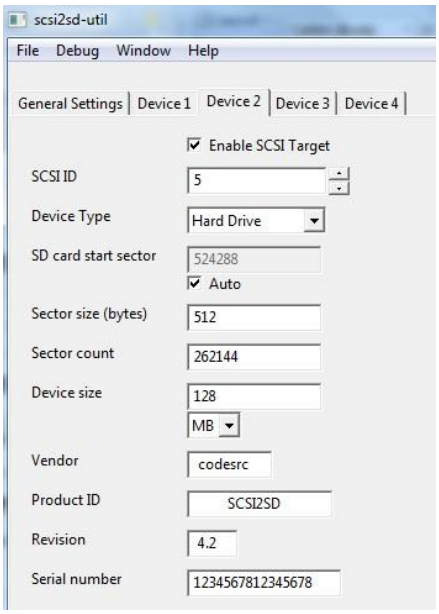
38) This is the end of guided tour #4. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #5: COPYING AN EMAX-II BANK FROM ONE SCSI2SD PARTITION TO ANOTHER SCSI2SD PARTITION

In this guided tour, we will copy a sound bank from the first *device* (partition) of a SCSI2SD card to the second *device* (partition) of that SCSI2SD card.
The SD card has been configured for a v5 SCSI2SD board installed in an EMAX-II sampler. Two *devices* (partitions) have been defined and enabled on the SCSI2SD board:

- Device 1: size 256MB, starting at sector 0, appearing as a hard disk with SCSI-ID#4 on the EMAX-II
- Device 2: size 128MB, starting after device 1 (auto), appearing as a hard disk with SCSI-ID#5 on the EMAX-II





This SCSI2SD configuration has not been defined yet in EMXP: defining the configuration is illustrated in this guided tour as well.
The first device contains a few EMAX-II sound banks, the second device is still empty.

1) After having started EMXP the main menu will appear. Since we want to copy an EMU EMAX-II sound bank, we select the first menu function by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-------------------------------------------------------------------------------

                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences




-------------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                         Please enter a menu option:
```

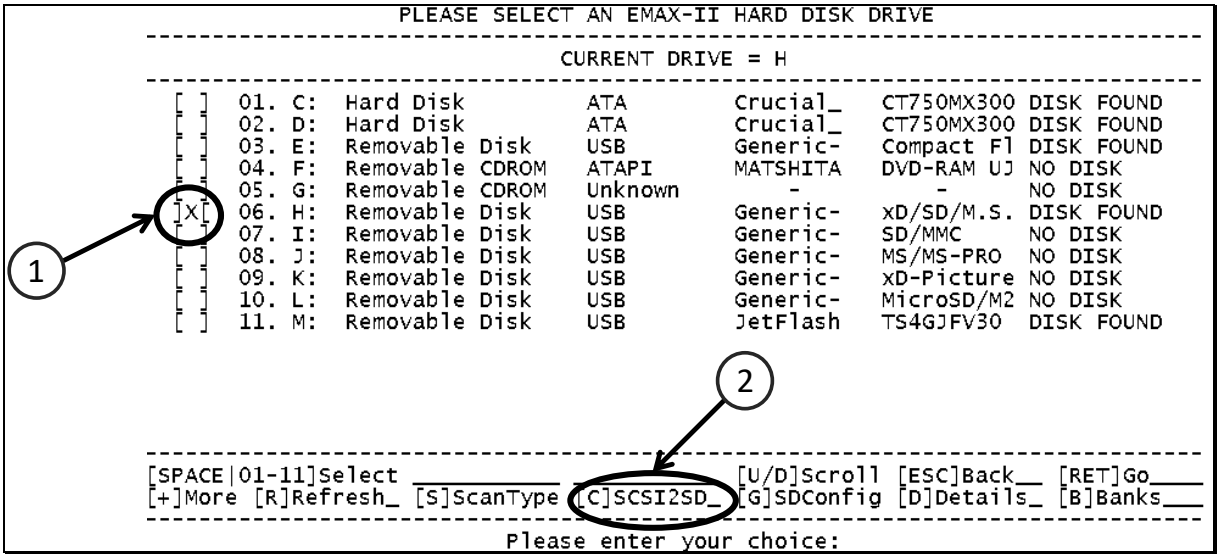
2) The following menu gives access to all EMU objects. Since we want to copy a bank from an EMAX-II hard disk partition, we select the second menu function.

```
                              EMU SAMPLER MENU
-------------------------------------------------------------------------------

              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files

-------------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                         Please enter a menu option:
```

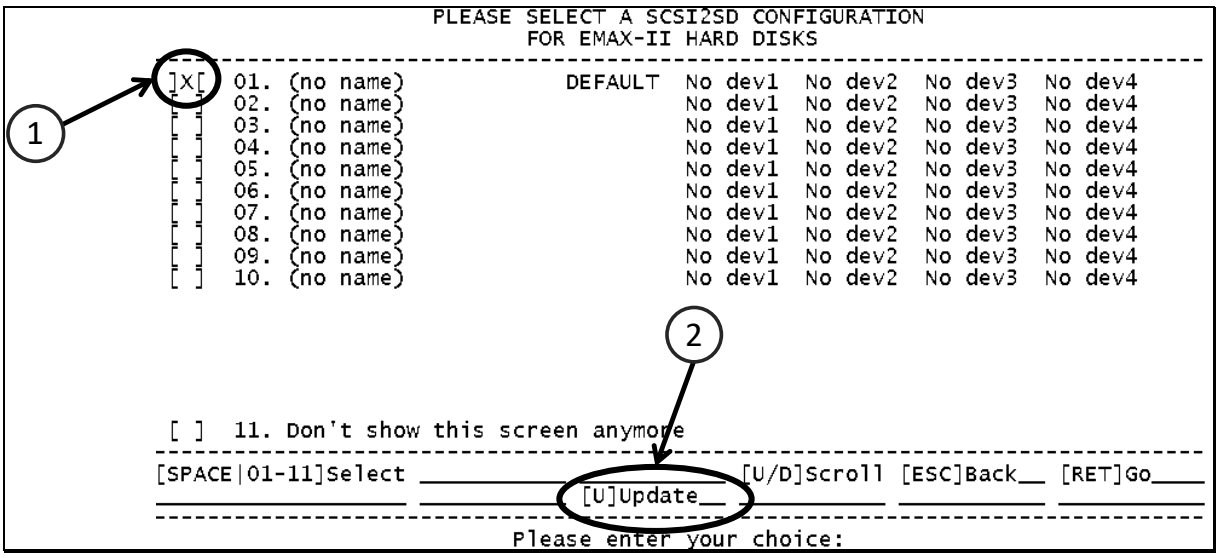
3) In the EMAX-II menu, we select menu function 5 to access EMAX-II hard disks.

```
                            EMAX-II SAMPLER MENU
-------------------------------------------------------------------------------

              1.  Manage EMAX-II Bank Files
              2.  Manage EMAX-II EMX Files
              3.  Manage EMAX-II Operating System Files
              4.  Manage EMAX-II Hard Disk Images
              5.  Manage EMAX-II Hard Disks
              6.  Manage EMAX-II Floppy Disk Images
              7.  Manage EMAX-II HxC Floppy Disk Images
              8.  Manage EMAX-I/EMAX-II Floppy Disks
              9.  Receive Samples from EMAX-II via RS422/MIDI
-------------------------------------------------------------------------------
            [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                         Please enter a menu option:
```

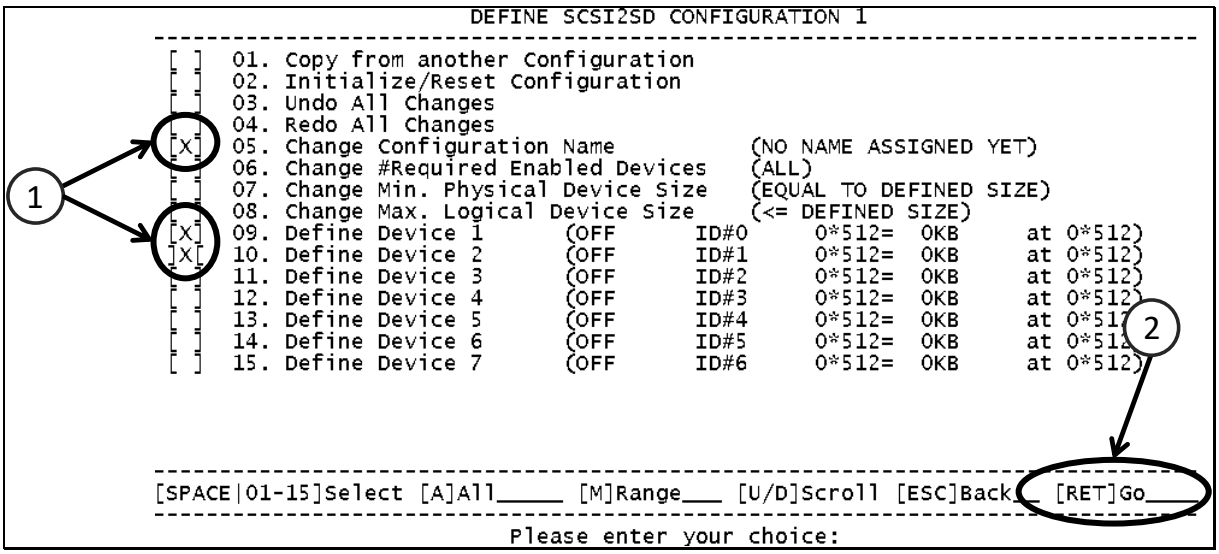
4) We have to select the first EMAX-II *device* (partition) on the SCSI2SD SD card now. By default EMXP displays an overview of all drives that are available in the computer *without taking into account any SCSI2SD partitioning*. So each drive is initially considered to be a drive containing a normal, un-partitioned disk. In our example the partitioned SCSI2SD SD card is in drive H, but we still have to expand the disk overview with the individual partitions on the disk in drive H.
We select item 6 and press "C" to scan for SCSI2SD partitions. Selecting item 6 can be done by moving the cursor ("] [") to the 6th line with the UP and DOWN keys on the keyboard, and pressing the SPACE bar to select the item. Alternatively we can simply enter "06" (or "6" followed by ENTER) on the keyboard to select the 6th drive. Once the drive is selected, we press "C" to scan for SCSI2SD partitions on that disk.



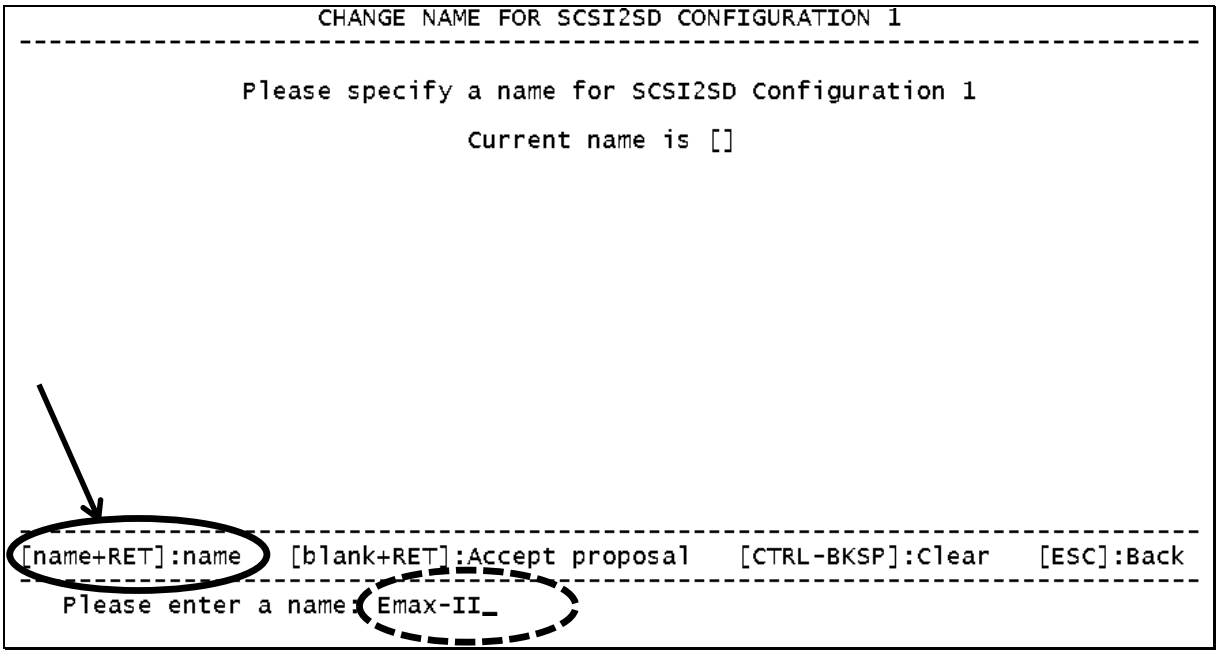
5) When scanning for SCSI2SD partitions, EMXP needs to know the SCSI2SD configuration that has been used and saved in the SCSI2SD board of your sampler. This configuration is *not saved on the SD card*, so we have to enter it first in EMXP. Since no SCSI2SD configurations have been defined yet in EMXP, the following screen appears. Let's define the SCSI2SD configuration now. We select the first of ten available configuration slots by selecting item 1 and we press "U" to update this SCSI2SD configuration. *Note: defining SCSI2SD configurations can also be done in the Preferences menu of EMXP, and has to be done only once*.



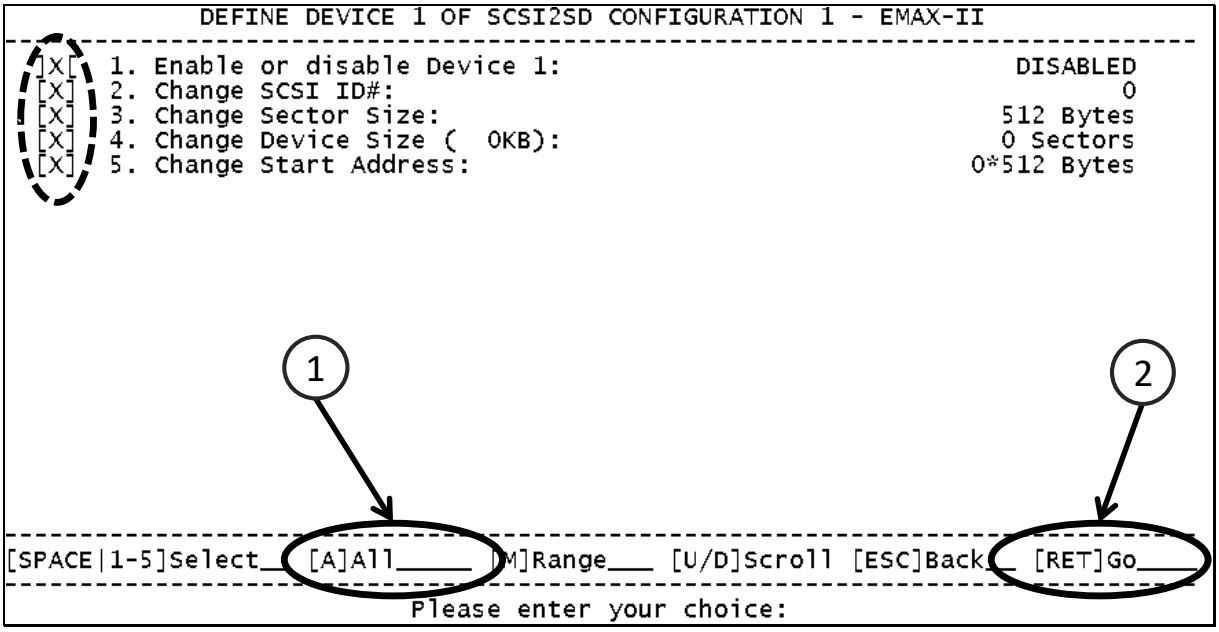
6) For normal use cases, the only parameters that have to be defined are (1) a user-friendly name for the SCSI2SD configuration scheme and (2) the settings of each enabled *device* (partition) on the SCSI2SD board. Since our SD card contains only 2 devices, we select item numbers 5, 9 and 10 (e.g. by entering "05", "09" and "10") and we press ENTER



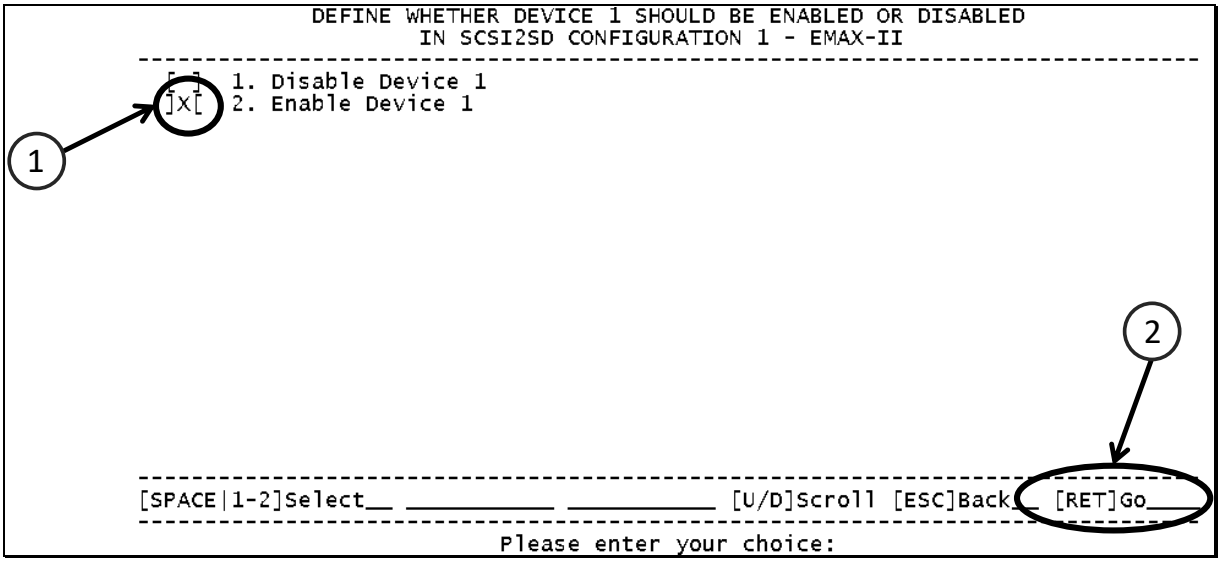
7) First we can enter a name for the SCSI2SD configuration. Let's call it "Emax-II". We enter this string and press ENTER.



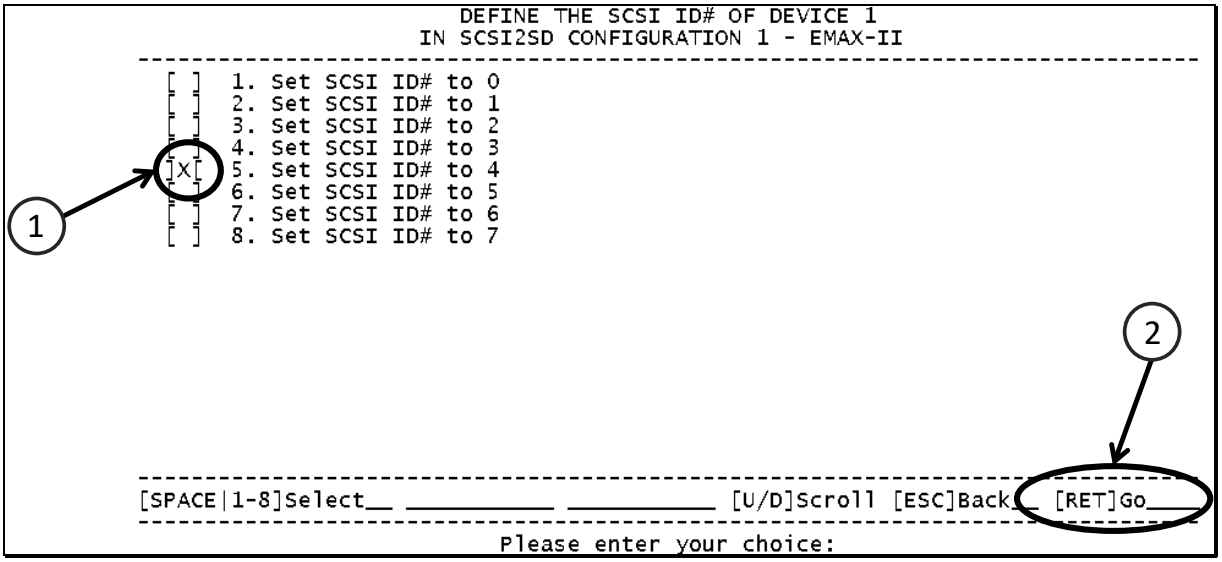
8) The next thing to do is define characteristics of the first device. We will enter all parameters at once, so we press "A" and ENTER. *The values of the parameters we will enter for device 1 should be identical to the values for device 1 that have been entered in the scsi2sd-util software when configuring the SCSI2SD board. A screenshot of those values can be found at the beginning of this guided tour.*



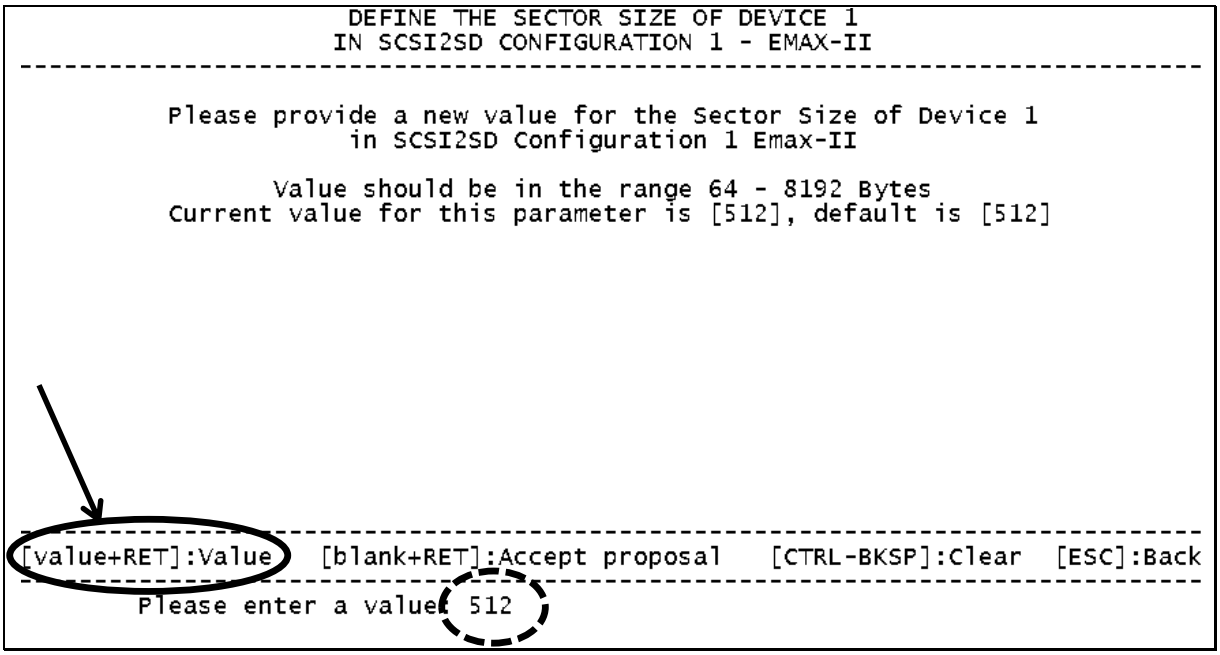
9) Let's enable device 1 by selecting item 2 and pressing ENTER



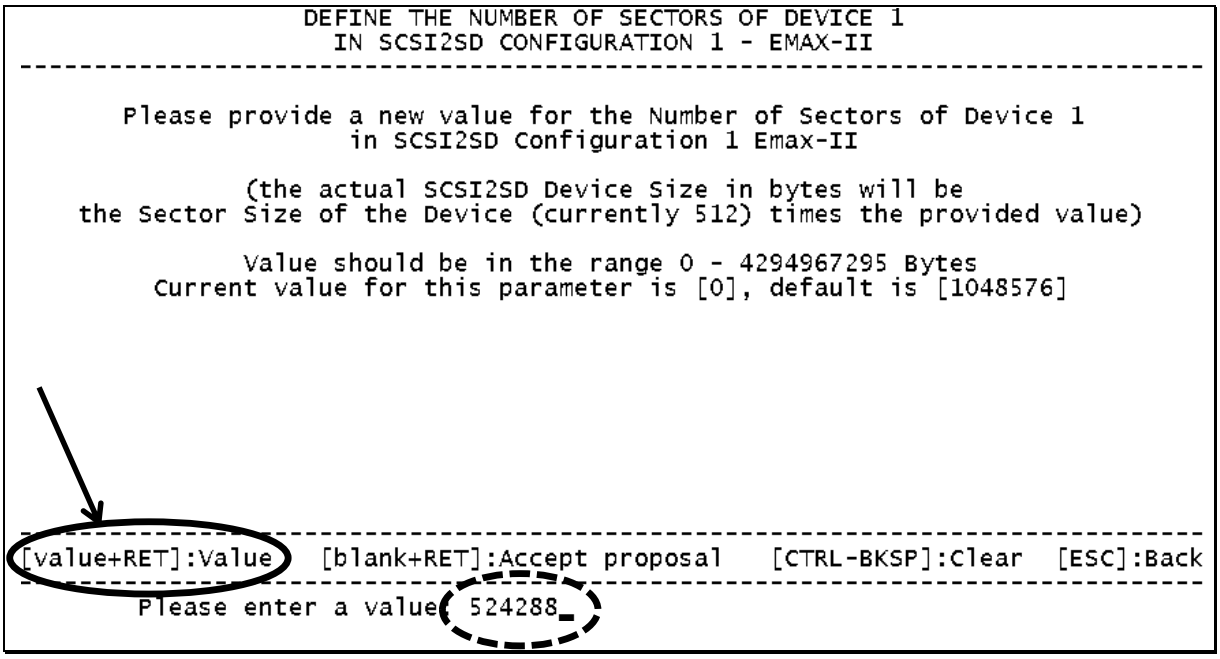
10) The next parameter that can (optionally) be set is the SCSI-ID# number which appears on the EMAX-II LCD screen when selecting the first SCSI2SD device (partition). This SCSI-ID# number will be used by EMXP to refer to this particular device on the SD card. We have assigned SCSI-ID#4 to the first device, so we select item number 5 and we press ENTER. From now on the first device on the disk in drive H will be called "H[#4]". *If we would rather want to see the device number as a reference instead of the SCSI-ID# number ("H[#1]") this can be configured by means of a File & Drive SCSI2SD Preference in the Preferences menu.*



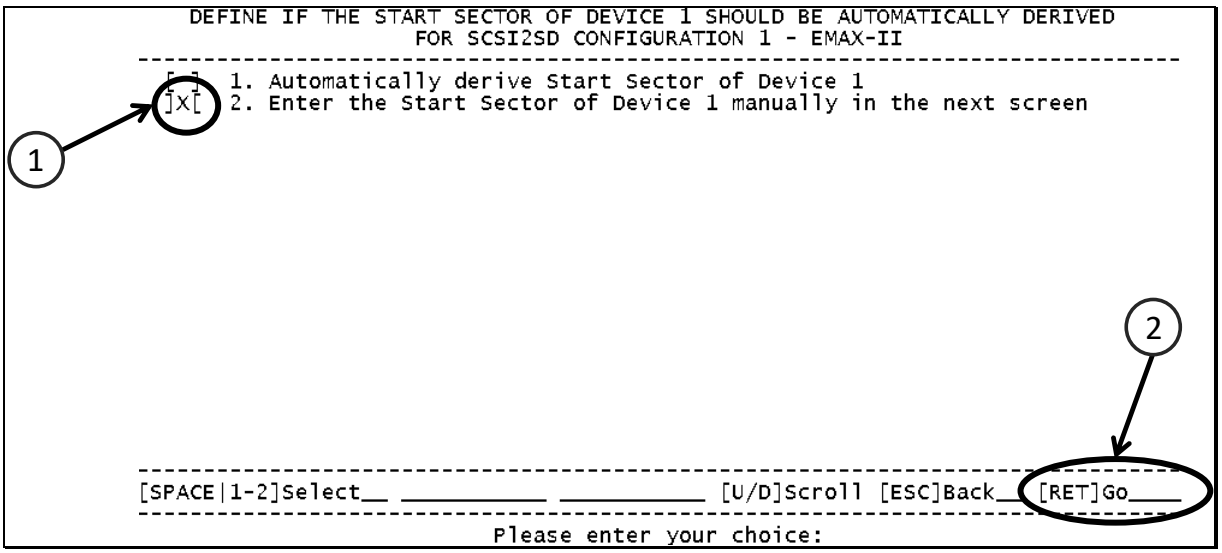
11) The sector size is 512 so we can simply accept the default value proposed by EMXP and press ENTER.



12) Now we have to enter the size of the first device on the SD card. The value to be entered is the number of sectors (so not the size in MB of GB). This value can be found in the scsi2sd-util software. The first device is 256MB in size, being 524288 sectors of 512 bytes. We enter 524288 and press ENTER.



13) Finally we have to tell EMXP where the first device can be found on the SD card. This is the very beginning of the disk (sector 0). We select item 2 and press ENTER to enter sector 0 as the start address of the device.



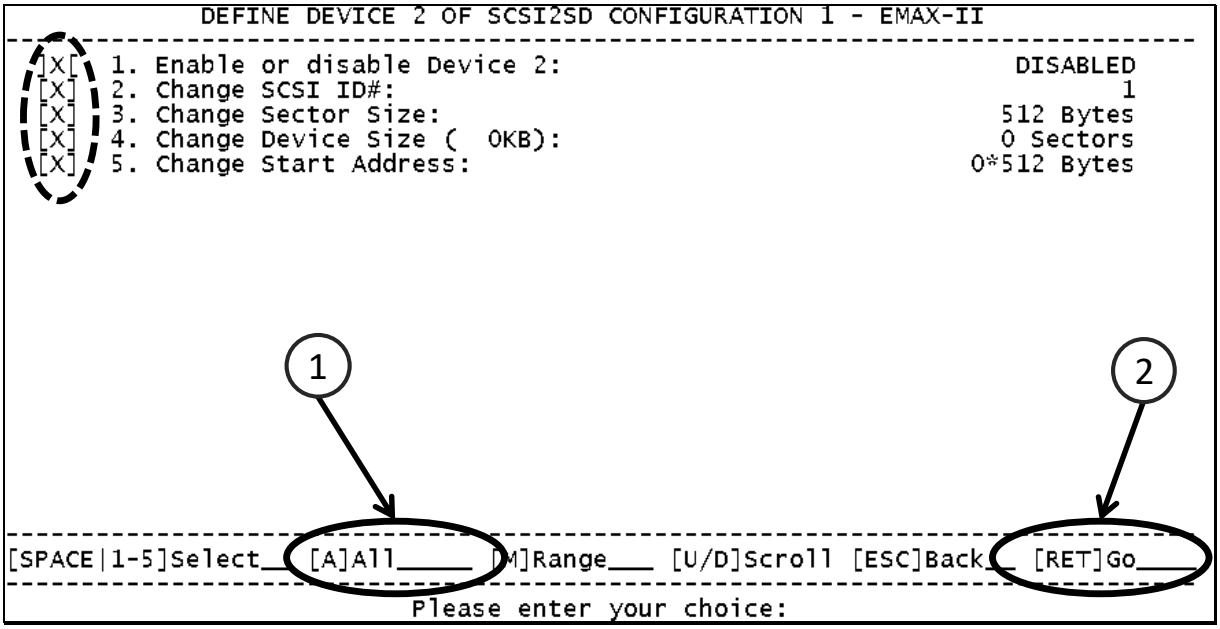
14) We can now enter the start sector number 0 and confirm this value by pressing ENTER.

```
                    DEFINE THE START SECTOR OF DEVICE 1
                   IN SCSI2SD CONFIGURATION 1 - EMAX-II
-------------------------------------------------------------------------------

         Please provide a new value for the Start Sector of Device 1
                      in SCSI2SD Configuration 1 Emax-II

   (the actual start location in bytes will be 512 times the provided value)

              Value should be in the range 0 - 4294967295 Bytes
           Current value for this parameter is [0], default is [0]

-------------------------------------------------------------------------------
[value+RET]:Value   [blank+RET]:Accept proposal   [CTRL-BKSP]:Clear   [ESC]:Back
-------------------------------------------------------------------------------
        Please enter a value: 0
```

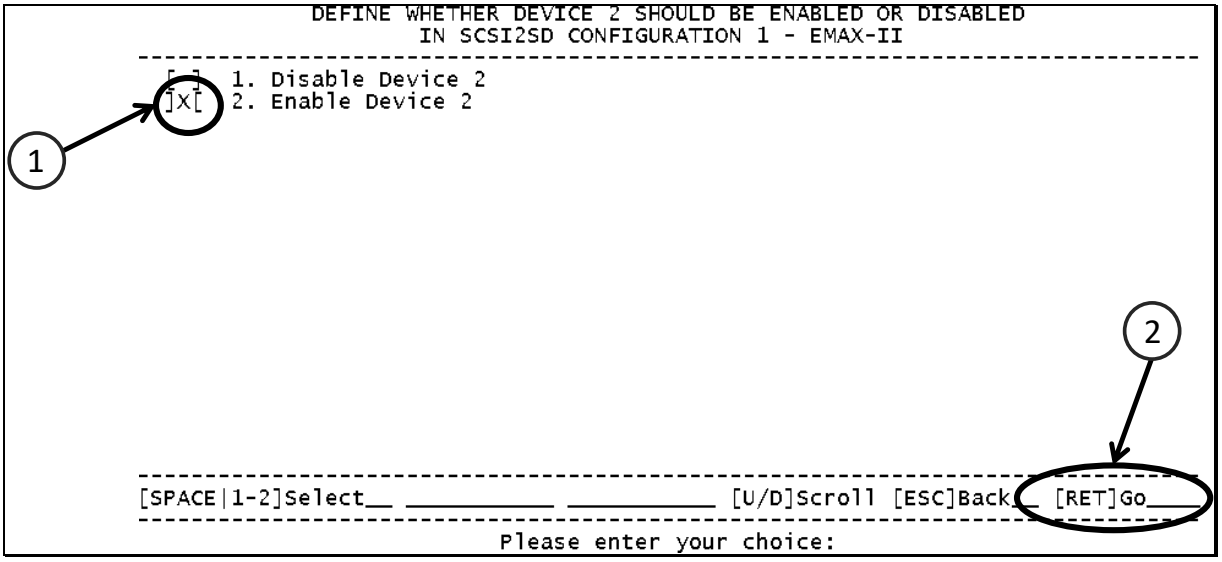
15) A summary of all parameter values of the first device is shown now. Let's go on with defining the second device. This can be done by pressing ESCAPE (=leaving the definition process of device 1 and starting the next configuration option that had been selected in step 6 of this guided tour; the next configuration option is defining device 2...)

```
            DEFINE DEVICE 1 OF SCSI2SD CONFIGURATION 1 - EMAX-II
-------------------------------------------------------------------------------
  ] [  1. Enable or disable Device 1:                          ENABLED
  [ ]  2. Change SCSI ID#:                                           4
  [ ]  3. Change Sector Size:                                  512 Bytes
  [ ]  4. Change Device Size (256MB):                       524288 Sectors
  [ ]  5. Change Start Address:                               0*512 Bytes

-------------------------------------------------------------------------------
[SPACE|1-5]Select__ [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ __________
-------------------------------------------------------------------------------
                          Please enter your choice:
```

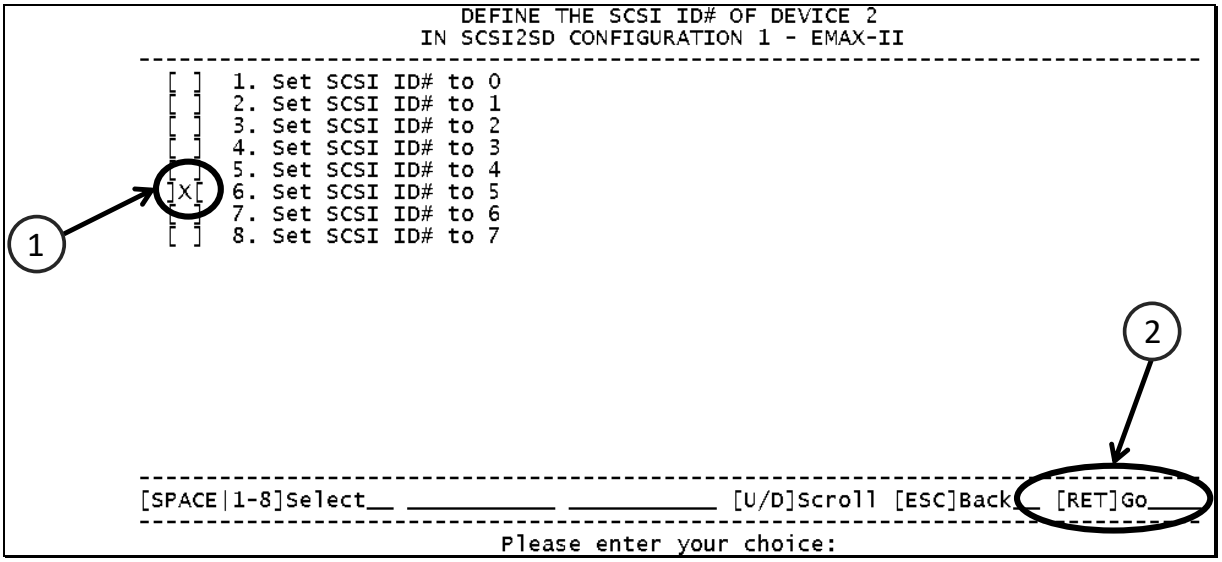
16) Similar to steps 8 → 15, we will now configure the second SCSI2SD device. Again, we will enter all parameters at once, so we press "A" and ENTER. *The values of the parameters we will enter for device 2 should be identical to the values for device 2 that have been entered in the scsi2sd-util software when configuring the SCSI2SD board. A screenshot of those values can be found at the beginning of this guided tour.*



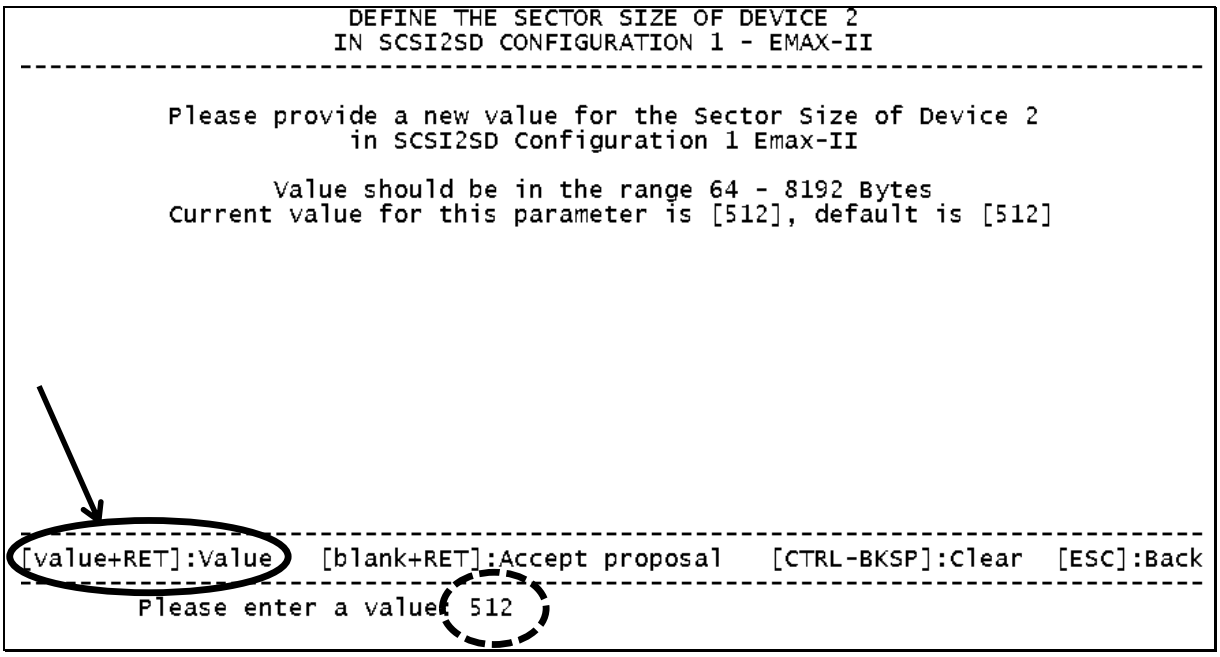
17) Let's enable device 2 by selecting item 2 and pressing ENTER



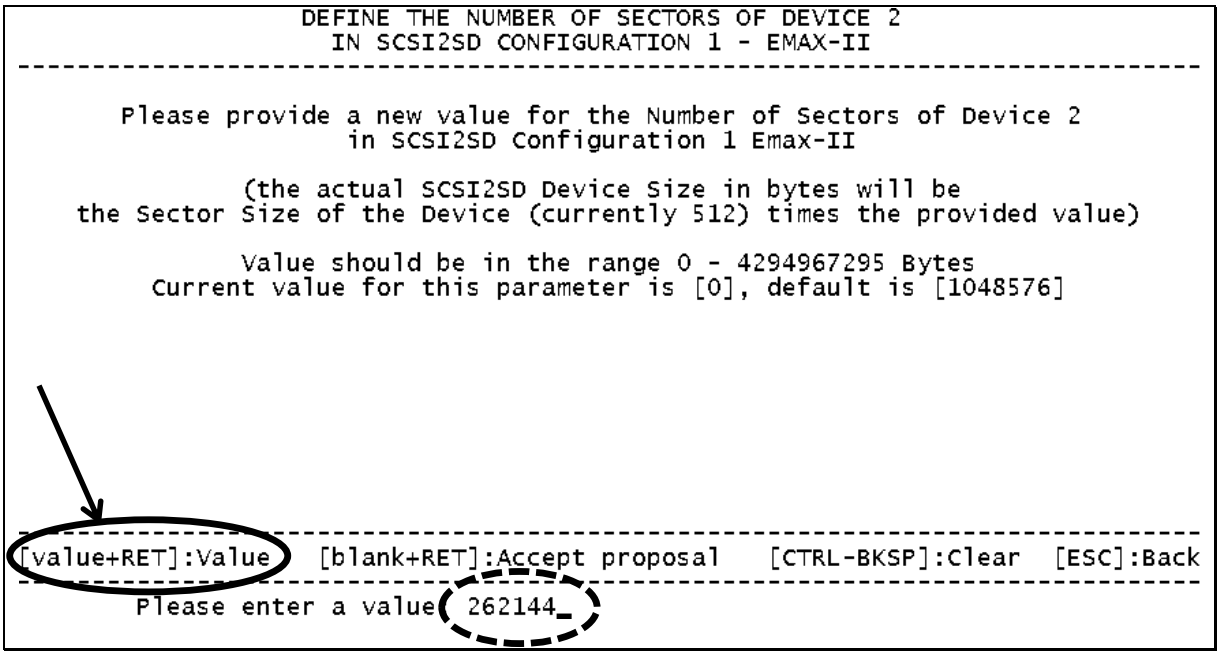
18) The next parameter that can (optionally) be set is the SCSI-ID# number which appears on the EMAX-II LCD screen when selecting the second SCSI2SD device (partition). We have assigned SCSI-ID#5 to the second device, so we select item number 6 and we press ENTER. From now on the first device on the disk in drive H will be called "H[#5]".



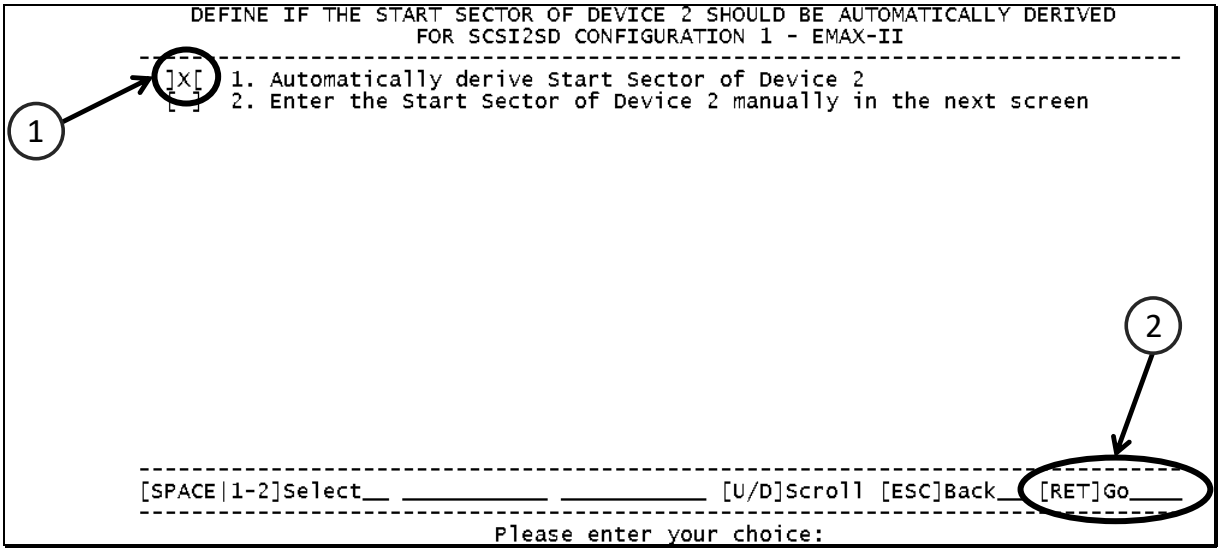
19) The sector size is 512 so we can simply accept the default value proposed by EMXP and press ENTER.



20) Now we have to enter the size of the second device on the SD card. The value to be entered is the number of sectors (so not the size in MB of GB). This value can be found in the scsi2sd-util software. The second device is 128MB in size, being 262144 sectors of 512 bytes. We enter 262144 and press ENTER.



21) Finally we have to tell EMXP where the second device can be found on the SD card. The second device starts immediately after the first device - the start sector is automatically derived based on the parameters of the first device. We select item 1 and press ENTER..



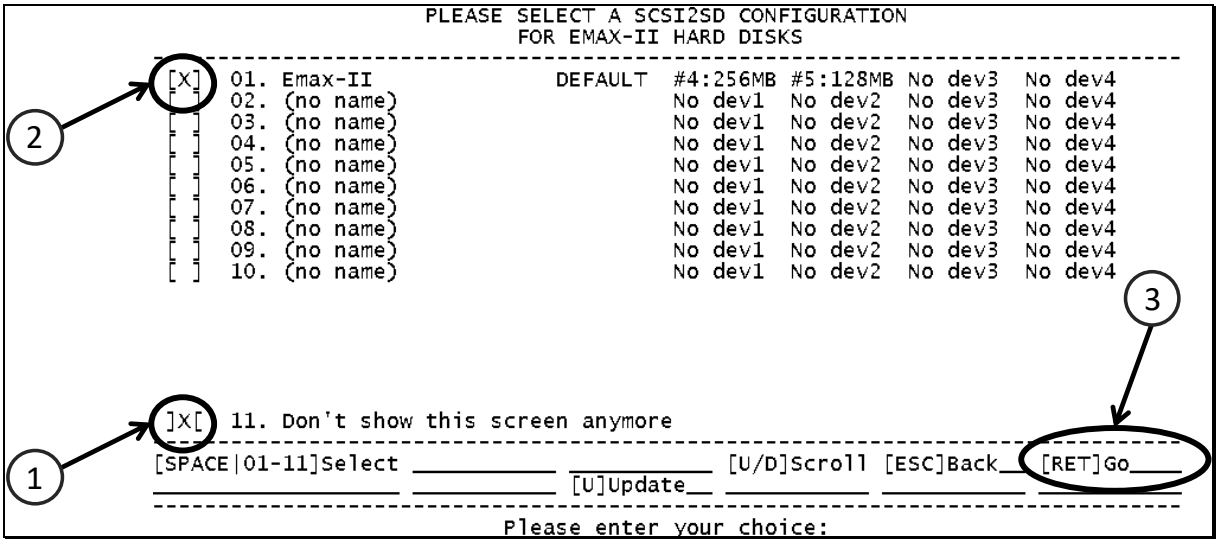
22) A summary of all parameter values of the second device is shown now. We leave this screen by pressing ESCAPE.

```
              DEFINE DEVICE 2 OF SCSI2SD CONFIGURATION 1 - EMAX-II
-------------------------------------------------------------------------------
 ] [  1. Enable or disable Device 2:                          ENABLED
 [ ]  2. Change SCSI ID#:                                           5
 [ ]  3. Change Sector Size:                                  512 Bytes
 [ ]  4. Change Device Size (128MB):                       262144 Sectors
 [ ]  5. Change Start Address [AUTO]:                     524288*512 Bytes
-------------------------------------------------------------------------------
[SPACE|1-5]Select__ [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__________
-------------------------------------------------------------------------------
                          Please enter your choice:
```

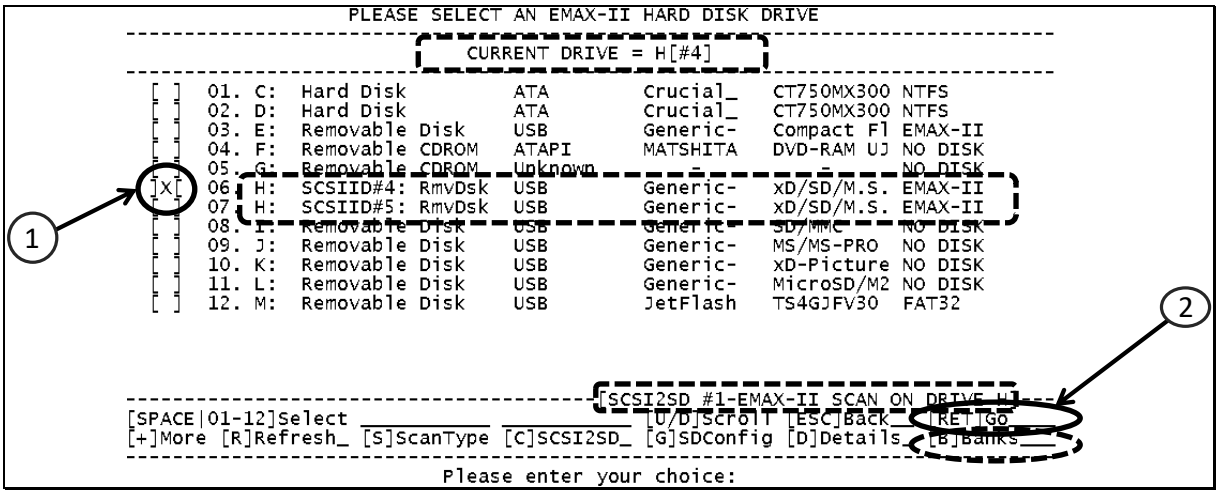
23) We have entered all required parameters of the SCSI2SD configuration now. A summary of the configuration is shown. EMXP will remember this configuration even after closing EMXP, so we don't have to go through steps 6 → 23 again the next time we want to use an SD card for that SCSI2SD configuration/board. Let's leave this screen by pressing ESCAPE.

```
                 DEFINE SCSI2SD CONFIGURATION 1 - EMAX-II
-------------------------------------------------------------------------------
 ] [  01. Copy from another Configuration
 [ ]  02. Initialize/Reset Configuration
 [ ]  03. Undo All Changes
 [ ]  04. Redo All Changes
 [ ]  05. Change Configuration Name          (Emax-II)
 [ ]  06. Change #Required Enabled Devices   (ALL)
 [ ]  07. Change Min. Physical Device Size   (EQUAL TO DEFINED SIZE)
 [ ]  08. Change Max. Logical Device Size    (<= DEFINED SIZE)
 [ ]  09. Define Device 1   (ON    ID#4   524288*512=256MB   at       0*512)
 [ ]  10. Define Device 2   (ON    ID#5   262144*512=128MB   at 524288*512)
 [ ]  11. Define Device 3   (OFF   ID#2        0*512=  0KB   at       0*512)
 [ ]  12. Define Device 4   (OFF   ID#3        0*512=  0KB   at       0*512)
 [ ]  13. Define Device 5   (OFF   ID#4        0*512=  0KB   at       0*512)
 [ ]  14. Define Device 6   (OFF   ID#5        0*512=  0KB   at       0*512)
 [ ]  15. Define Device 7   (OFF   ID#6        0*512=  0KB   at       0*512)
-------------------------------------------------------------------------------
[SPACE|01-15]Select [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__________
-------------------------------------------------------------------------------
                          Please enter your choice:
```

24) We want EMXP to use the SCSI2SD configuration we just defined when trying to detect the *devices* (partitions) on the SD card in drive H. But since all SCSI2SD cards we will use with our EMAX-II sampler are using this SCSI2SD configuration, we first select item number 11. By doing this EMXP will by default use this configuration and not ask anymore for selecting a SCSI2SD configuration whenever we will press "C" in the Disk Manager for finding EMAX-II partitions on a SCSI2SD disk. *If you want to change this behaviour later, you can disable item number 11 again in the Preferences menu.*
As a final step we of select the SCSI2SD configuration we just defined by selecting item number 1 and we press ENTER.



25) The Disk Manager is now showing the two *devices* (partitions) it found on the SD card in drive H. Both partitions are identified as EMAX-II partitions. Note that a status message is displayed at the right bottom of the disk overview indicating that a SCSI2SD scan is enabled on drive H based on configuration #1 named "Emax-II". We will copy a bank from the first device (SCSI-ID#4) to the second (empty device (SCSI-ID#5), so we select drive "H[#4]" by selecting item number 6 and pressing ENTER. *As faster method would be to press the "B" shortcut key instead of ENTER. By doing this EMXP would immediately display the bank overview of step 27*



26) We want to have an overview of all sound banks on the first *device* (partition) on the SD card in drive H, so we select menu option 1. *As explained in step 25, a faster method to get an overview of the banks would be to use shortcut key "B" in the drive overview screen.*

```
                          EMAX-II HARD DISK MENU
-------------------------------------------------------------------------------

        1.  Manage Banks on EMAX-II Hard Disk

        2.  Format EMAX-II Hard Disk

        3.  Manage Operating System on EMAX-II Hard Disk

        4.  Copy EMAX-II Hard Disk to EMAX-II Hard Disk Image (Backup)

        5.  Copy EMAX-II Hard Disk to other EMAX-II Hard Disk (Clone)

        6.  Show Details of EMAX-II Hard Disk




-------------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

27) We will copy the "ANALOG GIANT" bank to the second *device* (partition) of the SD card, so we select item number 2 and we press "Y" to immediately start the copy process.

```
                          EMAX-II HARD DISK BANK OVERVIEW
        -------------------------------------------------------------------------
        [ ]  1. B00 ANALOG COMBO       EMAX-II   #Pres: 20  #Samp: 24  1003 Kb
        ]X[  2. B01 ANALOG GIANT       EMAX-II   #Pres: 29  #Samp: 13  1047 Kb
        [ ]  3. B02 ANALOGSTRING       EMAX-II   #Pres: 13  #Samp: 10  1034 Kb
        [ ]  4. B03 ARCO STRINGS       EMAX-II   #Pres: 26  #Samp: 11  1048 Kb
        [ ]  5. B04 ATMOSPHERES        EMAX-II   #Pres: 15  #Samp: 6   1042 Kb

        -------------------------------------------------------------------------
        [SPACE|1-5]Select__ [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ [RET]Go____
        [+]More [P]Presets_ [S]Samples_ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
        -------------------------------------------------------------------------
                                  Please enter your choice:
```

28) We have to specify to what type of EMAX-II file or disk we want to copy the sound bank. Let's select menu option 6.

```
                PLEASE SELECT A TARGET EMAX-II FILE/DISK TYPE
-------------------------------------------------------------------------------

                1.  Copy to EMAX-II Bank File(s)

                2.  Copy to EMAX-II EMX File(s)

                3.  Copy to EMAX-II Floppy Disk Image File(s)

                4.  Copy to EMAX-II HxC Floppy Image File(s)

                5.  Copy to EMAX-II Hard Disk Image File

                6.  Copy to EMAX-II Hard Disk

                7.  Copy to EMAX-II Floppy Disk(s)



-------------------------------------------------------------------------------
            [1]...[7]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                        Please enter a menu option:
```

29) EMXP is asking now whether the copy process should be done in an automated (batch) mode with minimal user intervention, or rather in a fully controlled item-per-item manual mode. Let's go for the fully automated mode. In this mode, EMXP will copy the bank to first available bank slot (location) on the target *device* (partition 2) of the SD card. We select the first item and press ENTER.

```
              DEFINE WHETHER EMXP SHOULD COPY/CONVERT ITEMS AUTOMATICALLY OR NOT
-------------------------------------------------------------------------------
]X[  1. Yes, copy/convert items as automated as possible            (BATCH)
[ ]  2. No, user should have maximum control                       (MANUAL)
[ ]  3. Use custom automation level                                (MANUAL)

          BATCH: All selected items will be copied/converted
            automatically using the copy/conversion preferences, e.g.
            for sample rates. You only have to specify the folder/disk where
            the copied/converted items should be saved.
          MANUAL: You can define all copy/conversion parameters and
            you can specify the destination (e.g. target file names) for each
            copied/converted item. Define which parts of
            the copy/conversion process should be manual or automated.
          SEMI-MANUAL: The current copy/conversion settings can be a
            mix of manual and automated processing, as has been configured
            previously in MANUAL or SEMI-MANUAL mode.

[ ]  4. Don't show this screen anymore
-------------------------------------------------------------------------------
[SPACE|1-4]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------------
                        Please enter your choice:
```

1

2

30) We have to select the destination hard disk now. The destination disk is actually the second *device* (partition) of the SCSI2SD SD card in drive H, so we press "C" to perform a SCSI2SD scan. *EMXP will immediately start the SCSI2SD based on the SCSI2SD configuration we have selected in step 24 and which we defined as the default SCSI2SD configuration for EMAX-II SCSI2SD disks. If we would like to use another SCSI2SD configuration, we can select (and/or define) another one by pressing "G" (not illustrated here)*

```
                    SELECT TARGET EMAX-II HARD DISK DRIVE
--------------------------------------------------------------------------------
                              CURRENT DRIVE = H
--------------------------------------------------------------------------------
  [ ]  01. C:  Hard Disk         ATA        Crucial_   CT750MX300 DISK FOUND
  [ ]  02. D:  Hard Disk         ATA        Crucial_   CT750MX300 DISK FOUND
  [ ]  03. E:  Removable Disk    USB        Generic-   Compact Fl DISK FOUND
  [ ]  04. F:  Removable CDROM   ATAPI      MATSHITA   DVD-RAM UJ NO DISK
  [ ]  05. G:  Removable CDROM   Unknown        -          -      NO DISK
  [X]  06. H:  Removable Disk    USB        Generic-   xD/SD/M.S. DISK FOUND
  [ ]  07. I:  Removable Disk    USB        Generic-   SD/MMC     NO DISK
  [ ]  08. J:  Removable Disk    USB        Generic-   MS/MS-PRO  NO DISK
  [ ]  09. K:  Removable Disk    USB        Generic-   xD-Picture NO DISK
  [ ]  10. L:  Removable Disk    USB        Generic-   MicroSD/M2 NO DISK
  [ ]  11. M:  Removable Disk    USB        JetFlash   TS4GJFV30  DISK FOUND

--------------------------------------------------------------------------------
[SPACE|01-11]Select __________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
___________________ [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_
--------------------------------------------------------------------------------
                          Please enter your choice:
```

31) First we verify that the SCSI2SD scan has been done with the correct SCSI2SD configuration scheme, by checking the status message at the bottom right of the drive overview. This should always be done as a safety measure ! EMXP is saying it used configuration "#1 Emax-II" to scan drive H which is OK. So we select the second *device* (partition with SCSI-ID#5) of the SD card in drive H now by selecting item number 7 and pressing ENTER.

```
                    SELECT TARGET EMAX-II HARD DISK DRIVE
--------------------------------------------------------------------------------
                            CURRENT DRIVE = H[#4]
--------------------------------------------------------------------------------
  [ ]  01. C:  Hard Disk         ATA        Crucial_   CT750MX300 NTFS
  [ ]  02. D:  Hard Disk         ATA        Crucial_   CT750MX300 NTFS
  [ ]  03. E:  Removable Disk    USB        Generic-   Compact Fl EMAX-II
  [ ]  04. F:  Removable CDROM   ATAPI      MATSHITA   DVD-RAM UJ NO DISK
  [ ]  05. G:  Removable CDROM   Unknown        -          -      NO DISK
  [ ]  06. H:  SCSIID#4: RmvDsk  USB        Generic-   xD/SD/M.S. EMAX-II
  [X]  07. H:  SCSIID#5: RmvDsk  USB        Generic-   xD/SD/M.S. EMAX-II
  [ ]  08. I:  Removable Disk    USB        Generic-   SD/MMC     NO DISK
  [ ]  09. J:  Removable Disk    USB        Generic-   MS/MS-PRO  NO DISK
  [ ]  10. K:  Removable Disk    USB        Generic-   xD-Picture NO DISK
  [ ]  11. L:  Removable Disk    USB        Generic-   MicroSD/M2 NO DISK
  [ ]  12. M:  Removable Disk    USB        JetFlash   TS4GJFV30  FAT32

                                   [SCSI2SD #1-EMAX-II SCAN ON DRIVE H]
--------------------------------------------------------------------------------
[SPACE|01-12]Select __________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
___________________ [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_
--------------------------------------------------------------------------------
                          Please enter your choice:
```

32) EMXP will now copy the sound bank from *device 1* to *device 2* on the SD card in drive H. At the end of the copy process, an execution report is displayed. Please note the names of the source and target disk in this report: *device 1* is named "H[#4]" (referring to SCSI-ID#4) and *device 2* is named "H[#5]" (referring to SCSI-ID#5).

```
                    REPORT: COPY/CONVERSION TO EMAX-II HARD DISK(S)
     ---------------------------------------------------------------------------

       1 selected bank has been processed

       ---------------------------------------------------------------------------

       Bank B001 ANALOG GIANT on EMAX-II hard disk:
         disk in drive H[#4]
       ...HAS BEEN COPIED TO...
       Bank B000 ANALOG GIANT on EMAX-II hard disk:
         disk in drive H[#5]

       ---------------------------------------------------------------------------
       The full report has been written to file:
        EMXPCOPY2EMAXIILOG_20180501123453504.TXT
       which can be found in:
        C:\Users\Kris\Documents\EMXP\Logs\
       ---------------------------------------------------------------------------


     ---------------------------------------------------------------------------
            [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
     ---------------------------------------------------------------------------
                                 Please enter your choice:
```

33) Let's verify if the second *device* indeed contains the ANALOG GIANT on location B00 now. We press ESCAPE and select menu option 5 of the EMAX-II sampler menu.

```
                              EMAX-II SAMPLER MENU
-------------------------------------------------------------------------------

                1.  Manage EMAX-II Bank Files

                2.  Manage EMAX-II EMX Files

                3.  Manage EMAX-II Operating System Files

                4.  Manage EMAX-II Hard Disk Images

                5.  Manage EMAX-II Hard Disks

                6.  Manage EMAX-II Floppy Disk Images

                7.  Manage EMAX-II HxC Floppy Disk Images

                8.  Manage EMAX-I/EMAX-II Floppy Disks

                9.  Receive Samples from EMAX-II via RS422/MIDI

-------------------------------------------------------------------------------
            [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                           Please enter a menu option:
```

34) The SD card is still in drive H. We press "C" to find the enabled SCSI2SD devices on the SD card

```
                    PLEASE SELECT AN EMAX-II HARD DISK DRIVE
-------------------------------------------------------------------------------
                              CURRENT DRIVE = H
-------------------------------------------------------------------------------
  [ ]  01. C:  Hard Disk         ATA       Crucial_   CT750MX300 DISK FOUND
  [ ]  02. D:  Hard Disk         ATA       Crucial_   CT750MX300 DISK FOUND
  [ ]  03. E:  Removable Disk    USB       Generic-   Compact Fl DISK FOUND
  [ ]  04. F:  Removable CDROM   ATAPI     MATSHITA   DVD-RAM UJ NO DISK
  [ ]  05. G:  Removable CDROM   Unknown       -          -      NO DISK
  ]X[  06. H:  Removable Disk    USB       Generic-   xD/SD/M.S. DISK FOUND
  [ ]  07. I:  Removable Disk    USB       Generic-   SD/MMC     NO DISK
  [ ]  08. J:  Removable Disk    USB       Generic-   MS/MS-PRO  NO DISK
  [ ]  09. K:  Removable Disk    USB       Generic-   xD-Picture NO DISK
  [ ]  10. L:  Removable Disk    USB       Generic-   MicroSD/M2 NO DISK
  [ ]  11. M:  Removable Disk    USB       JetFlash   TS4GJFV30  DISK FOUND

-------------------------------------------------------------------------------
[SPACE|01-11]Select __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_ [B]Banks___
-------------------------------------------------------------------------------
                          Please enter your choice:
```

35) Let's select the second *device* by selecting item number 7 and pressing shortcut key "B" to immediately get an overview of the sound banks on this SCSI2SD device.

```
                    PLEASE SELECT AN EMAX-II HARD DISK DRIVE
-------------------------------------------------------------------------------
                              CURRENT DRIVE = H[#4]
-------------------------------------------------------------------------------
  [ ]  01. C:  Hard Disk         ATA       Crucial_   CT750MX300 NTFS
  [ ]  02. D:  Hard Disk         ATA       Crucial_   CT750MX300 NTFS
  [ ]  03. E:  Removable Disk    USB       Generic-   Compact Fl EMAX-II
  [ ]  04. F:  Removable CDROM   ATAPI     MATSHITA   DVD-RAM UJ NO DISK
  [ ]  05. G:  Removable CDROM   Unknown       -          -      NO DISK
  [ ]  06. H:  SCSIID#4: RmvDsk  USB       Generic-   xD/SD/M.S. EMAX-II
  ]X[  07. H:  SCSIID#5: RmvDsk  USB       Generic-   xD/SD/M.S. EMAX-II
  [ ]  08. I:  Removable Disk    USB       Generic-   SD/MMC     NO DISK
  [ ]  09. J:  Removable Disk    USB       Generic-   MS/MS-PRO  NO DISK
  [ ]  10. K:  Removable Disk    USB       Generic-   xD-Picture NO DISK
  [ ]  11. L:  Removable Disk    USB       Generic-   MicroSD/M2 NO DISK
  [ ]  12. M:  Removable Disk    USB       JetFlash   TS4GJFV30  FAT32

                                        [SCSI2SD #1-EMAX-II SCAN ON DRIVE H]---
-------------------------------------------------------------------------------
[SPACE|01-12]Select __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_ [B]Banks___
-------------------------------------------------------------------------------
                          Please enter your choice:
```

36) Indeed ! The ANALOG GIANT bank has successfully been copied. Let's leave this overview screen by pressing ESCAPE.

```
                        EMAX-II HARD DISK BANK OVERVIEW
-------------------------------------------------------------------------------
 ] [  1. B00 ANALOG GIANT       EMAX-II   #Pres: 29  #Samp: 13  1047 Kb
-------------------------------------------------------------------------------
[SPACE|1-1]Select__ [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ __________
_________________ __________ __________ __________ __________ __________
-------------------------------------------------------------------------------
                          Please enter your choice:
```

37) This is the end of guided tour #5. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #6: CONVERTING EMULATOR-II BANK FILES TO SOUNDFONT2 FILES

In this guided tour, we will convert a set of 6 selected Emulator-II bank files into SoundFont2 files in a fully automated (batch) mode.

1) After having started EMXP the main menu will appear. Since we want to convert EMU Emulator-II files, we select menu function 1 by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------

                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences




-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

2) The Emu Sampler menu will appear. Since we want to convert Emulator-II files, we select menu function 4 by pressing "4" on the keyboard of the computer.

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------

              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files




-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

3) In the Emulator-II menu we select menu function 1 to get an overview of all Emulator-II bank files in the current folder.

```
                          EMULATOR-II SAMPLER MENU
-------------------------------------------------------------------------------

            1.  Manage EMULATOR-II Bank Files

            2.  Manage EMULATOR-II Floppy Disk Images

            3.  Manage EMULATOR-II HxC Floppy Disk Images

            4.  Manage EMULATOR-II Hard Disk Images (e.g. DREM)

            5.  Manage EMULATOR-II Hard Disks

            6.  Manage EMULATOR-II Operating System Files

            7.  Receive Banks from EMULATOR-II via RS422

            8.  Receive Samples from EMULATOR-II via RS422


-------------------------------------------------------------------------------
            [1]...[8]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                         Please enter a menu option:
```

4) EMXP now shows a list of all Emulator-II bank files in the current folder, which in our example was already set to the correct folder (\Images\Emulator II\EmuII Factory) so we don't have to navigate to that folder anymore. We want to convert a set of 6 files consisting of the files starting with "10 Stacked Strings" and ending with "15 Armaggedon". Selecting these 6 files can be done in a few ways:

- (not shown in picture) By entering "08", "09", "10", "11", "12" and "13" successively on the keyboard and pressing ENTER (items 8 or 9 can also be selected by entering "8" or "9" followed by ENTER)
- (not shown in picture) By moving the cursor ("] [") with the UP and DOWN keys to each of the items 08 till 13 and for each item we press the SPACE bar to select the item. After having completed this action for the 6 items we press ENTER
- (shown in picture) By marking the set of 6 files. To do this we first press "M" on the keyboard , then we move the cursor ("] [") with the UP and DOWN keys to item 8, and we press the SPACE bar. The selector in front of item 8 changes from "[ ]" to "[M]". See 5) for the next step.

```
                          EMULATOR-II BANK FILE OVERVIEW
      -------------------------------------------------------------------------
      CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emulator II\EmuII Factory\
      -------------------------------------------------------------------------
        [ ]  01. -- CHANGE FOLDER --
        [ ]  02. 04 Grand Piano                Piano #3   #Pres: 15  #Samp: 6
        [ ]  03. 05 Marcato Strings            Marcato St #Pres: 14  #Samp: 10
        [ ]  04. 06 Bass, Synth, Drums         Bass Synth #Pres: 11  #Samp: 22
        [ ]  05. 07 Percussion #1              Elec Drum  #Pres: 14  #Samp: 34
        [ ]  06. 08 Cello & Violin             Cello Vln  #Pres: 7   #Samp: 26
        [ ]  07. 09 Orchestra Tune             Orch Tune  #Pres: 4   #Samp: 1
        ]M[  08. 10 Stacked Strings            Arco Strgs #Pres: 12  #Samp: 6
        [ ]  09. 11 Acoustic Guitar            Acou Guita #Pres: 5   #Samp: 6
        [ ]  10. 12 Voices                     Voices #1  #Pres: 12  #Samp: 11
        [ ]  11. 13 Digital Synth              Flute #1   #Pres: 27  #Samp: 16
        [ ]  12. 14 Gong, Timpani, Voices      Gong Tymp  #Pres: 1   #Samp: 4
        [ ]  13. 15 Armaggedon                 Armagedon  #Pres: 1   #Samp: 4
        [ ]  14. 16 Basoon Flute               LUTE       #Pres: 21  #Samp: 8
        [ ]  15. 17 Kalimba & Shaku-Hachi      Kalimba #1 #Pres: 2   #Samp: 6
        [ ]  16. 18 Grand Piano #2             NULL PRESE #Pres: 1   #Samp: 0
      -------------------------------------------------------------------------
      [SPACE|01-94]Select __________ __________ [ARW]Scroll [ESC]Back__ __________
      __________________ __________ __________ __________ __________ __________
      -------------------------------------------------------------------------
                          Enter end number of selection area:
```

5) To complete the selection of the set of 6 files, we move the cursor to item 13 and we press the SPACE bar. Since a start marker was placed on item 8, all files in items 8 → 13 will now be selected at once. We press "C" to to launch the Emulator-II conversion menu.

```
                         EMULATOR-II BANK FILE OVERVIEW
 ------------------------------------------------------------------------------
 CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emulator II\EmuII Factory\
 ------------------------------------------------------------------------------
   [ ]  01. -- CHANGE FOLDER --
   [ ]  02. 04 Grand Piano                  Piano #3   #Pres: 15  #Samp: 6
   [ ]  03. 05 Marcato Strings              Marcato St #Pres: 14  #Samp: 10
   [ ]  04. 06 Bass, Synth, Drums           Bass Synth #Pres: 11  #Samp: 22
   [ ]  05. 07 Percussion #1                Elec Drum  #Pres: 14  #Samp: 34
   [ ]  06. 08 Cello & Violin               Cello Vln  #Pres: 7   #Samp: 26
   [ ]  07. 09 Orchestra Tune               Orch Tune  #Pres: 4   #Samp: 1
   [X]  08. 10 Stacked Strings              Arco Strgs #Pres: 12  #Samp: 6
   [X]  09. 11 Acoustic Guitar              Acou Guita #Pres: 5   #Samp: 6
   [X]  10. 12 Voices                       Voices #1  #Pres: 12  #Samp: 11
   [X]  11. 13 Digital Synth                Flute #1   #Pres: 27  #Samp: 16
   [X]  12. 14 Gong, Timpani, Voices        Gong Tymp  #Pres: 1   #Samp: 4
   [X]  13. 15 Armaggedon                   Armagedon  #Pres: 1   #Samp: 4
   [ ]  14. 16 Basoon Flute                 LUTE       #Pres: 21  #Samp: 8
   [ ]  15. 17 Kalimba & Shaku-Hachi        Kalimba #1 #Pres: 2   #Samp: 6
   [ ]  16. 18 Grand Piano #2               NULL PRESE #Pres: 1   #Samp: 0
 ------------------------------------------------------------------------------
 [SPACE|01-94]Select [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
 [+]More ___________ ___________ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
 ------------------------------------------------------------------------------
                          Please enter your choice:
```

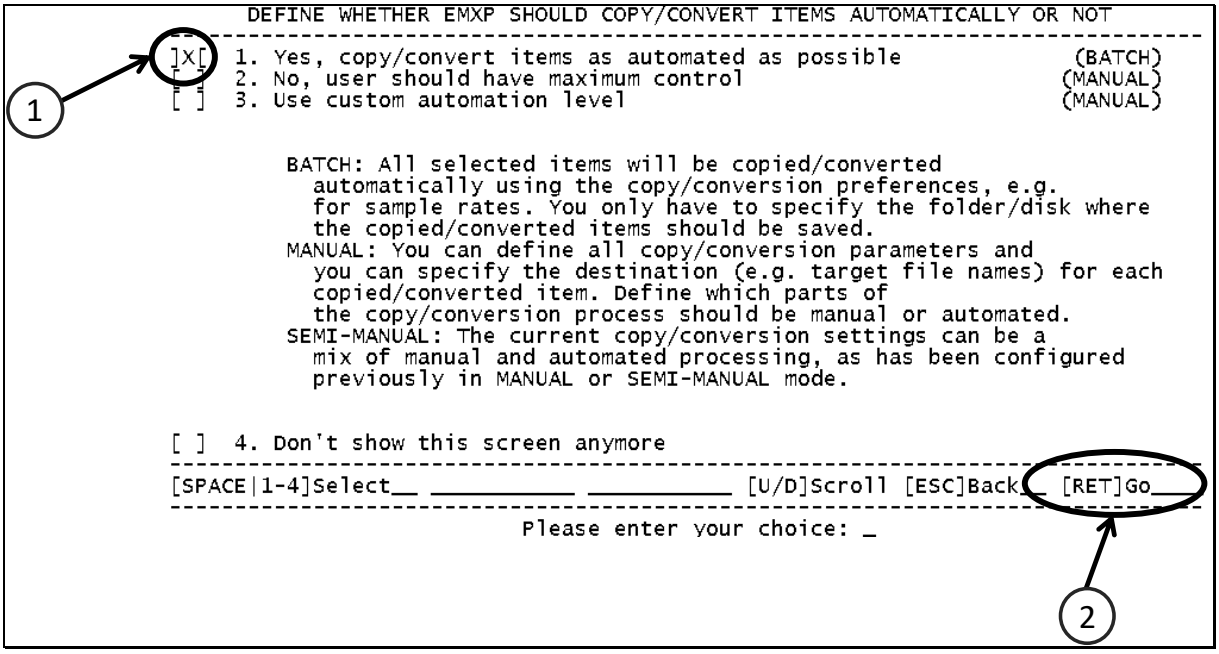
1

2

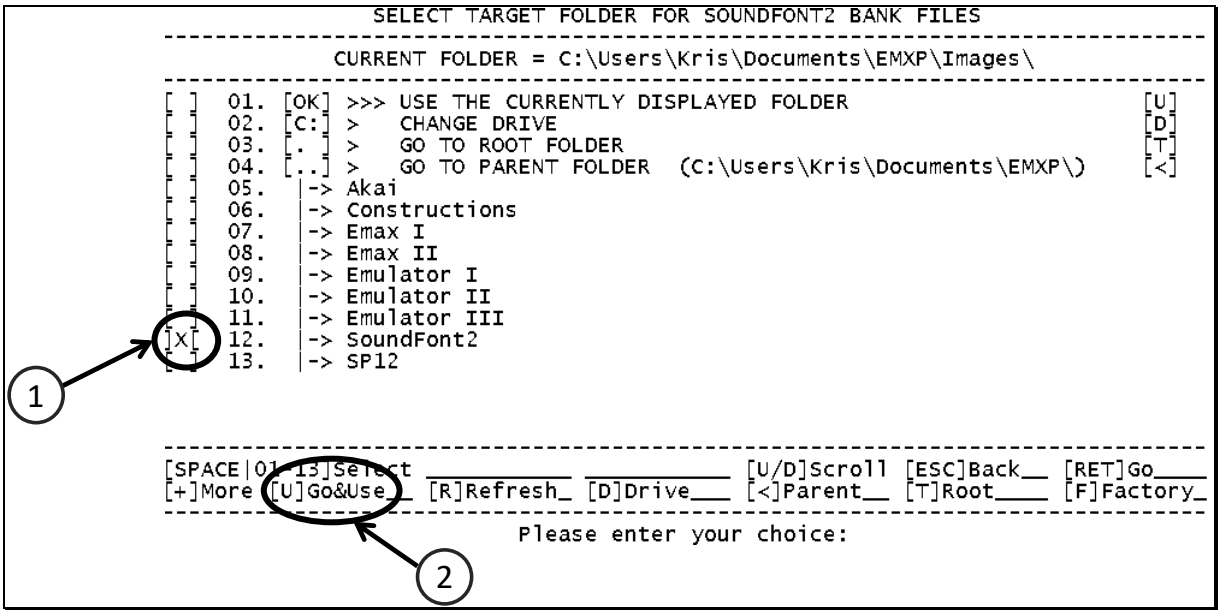
6) In the conversion menu, we select menu function 7 for converting the selected Emulator-II bank files into the SoundFont2 format.

```
                    SELECT TARGET SAMPLER FORMAT
 ------------------------------------------------------------------------------

                1.  Convert to EMAX-I Sampler Format

                2.  Convert to EMAX-II Sampler Format

                3.  Convert to EMULATOR-I Sampler Format

                4.  Convert to EMULATOR-III Sampler Format

                5.  Convert to EMULATOR-IIIX Sampler Format

                6.  Convert to ESI-V3 Sampler Format

                7.  Convert to SOUNDFONT2 Sampler Format

                8.  Convert to SP-12 Sampler Format

 ------------------------------------------------------------------------------
          [1]...[8]: menu option                  ESC: Go back
 ------------------------------------------------------------------------------
                     Please enter a menu option:
```

7) EMXP now asks whether the conversion of the selected files should be done in an automated (batch) mode with minimal user intervention, or rather in a fully controlled item-per-item manual mode. The only conversion parameters which are specific for conversions from Emulator-II to SoundFont2 are related to how the SoundFont2 sample names should look like, and whether ExclusiveClass generators should be created. The default values for those parameter result in sample names that are identical to the source sample names and ExclusiveClass generators for mono output channel assignments and solo keyboard settings (these parameter can always be changed in the preferences menu). These default values are fine so we decide to use the fully automated batch mode. The batch mode will convert all 6 files at once, without any user intervention. EMXP will automatically assign file names to the generated SoundFont2 files. That's fine so we select the first item and press ENTER.



8) The last thing we have to do before the conversion will take off is specifying in which folder the SoundFont2 files should be saved. We will save the files in the folder "\Images\SoundFont2", so we select item 12 and we press shortcut key "U".



9) EMXP is now converting the Emulator-II bank files into SoundFont2 files. This takes a few seconds.

```
                    COPY/CONVERSION PROCESS IN PROGRESS
-------------------------------------------------------------------------------

                EMXP is copying/converting the selected items

                        to SOUNDFONT2 bank file(s)

                              Please wait...









-------------------------------------------------------------------------------
                                 PLEASE WAIT
-------------------------------------------------------------------------------
          |||||||||||||||||||||||||||||
```

10) When the conversion is finished, EMXP displays the conversion execution report. This report has also been saved to disk (the location and file name of the report can be found at the end of the report). The report explains how many of the conversions were successful, and includes a subreport for each conversion. These subreports explain in detail which files have been converted into which files, and which presets, samples and instruments have been created from which source presets, samples and voice layers. If any incompatibility was encountered during the conversion, this will be mentioned in the subreport as well.
We scroll through the report by pressing the UP/DOWN keys or the PAGE UP/PAGE DOWN keys on the keyboard.

```
             REPORT: COPY/CONVERSION TO SOUNDFONT2 BANK FILE(S)
-------------------------------------------------------------------------------
  6 of the 6 selected files have been processed

  -----------------------------------------------------------------------------
  SUBREPORT 1 of 6:
  -----------------------------------------------------------------------------

  EMU-II bank file (Bank Arco Strgs 1):
    10 Stacked Strings.EII
      in C:\Users\Kris\Documents\EMXP\Images\Emulator II\EmuII Factory\
  ...HAS BEEN CONVERTED TO...
  Bank Arco Strgs 1 in SF2 bank file:
    10 Stacked Strings.SF2
      in C:\Users\Kris\Documents\EMXP\Images\SoundFont2\
  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
  CONVERSION REPORT:

  EMU-II bank "Arco Strgs 1" has been translated to
    SF2 bank Arco Strgs 1

-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                          Please enter your choice:
```

11) If we scroll down a few lines, we can see the name of the SoundFont2 bank that has been created, as well as an overview of all presets that have been created. We scroll down one more page...

```
              REPORT: COPY/CONVERSION TO SOUNDFONT2 BANK FILE(S)
-------------------------------------------------------------------------------
  CONVERSION REPORT:

  EMU-II bank "Arco Strgs 1" has been translated to
    SF2 bank Arco Strgs 1

  - 0 presets have NOT been translated (see end of report).
  - 0 samples have NOT been translated (see end of report).
  - 0 voices have NOT been translated (see end of report).

  SF2 Preset overview (12 presets):
      P000 Arco Strgs 1            (original: P001)
      P001 XfadeStrgs 1            (original: P002)
      P002 Slow Strgs 1            (original: P003)
      P003 XfadeStrgs 2            (original: P004)
      P004 TruncStrgs 1            (original: P005)
      P005 SynthStrgs 1            (original: P006)
      P006 SynthStrgs 2            (original: P007)
      P007 SynthStrgs 3            (original: P008)
      P008 SynthStrgs 3            (original: P009)
-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                         Please enter your choice:
```

12) The next page of the report shows the samples and some of the instruments that have been created in the first SoundFont2 file. We scroll down a few more pages...

```
              REPORT: COPY/CONVERSION TO SOUNDFONT2 BANK FILE(S)
-------------------------------------------------------------------------------
  SF2 Sample overview (6 samples):
      S000 SAMPLE 1                (original: S001)
      S001 SAMPLE 2                (original: S002)
      S002 SAMPLE 3                (original: S003)
      S003 SAMPLE 4                (original: S004)
      S004 SAMPLE 5                (original: S005)
      S005 SAMPLE 6                (original: S006)

  SF2 Instrument overview (14 instruments):
      I000 Arco Strgs 1-PRI        (original: P001 PRI)
      I001 XfadeStrgs 1-PRI        (original: P002 PRI)
      I002 XfadeStrgs 1-SEC        (original: P002 SEC)
      I003 Slow Strgs 1-PRI        (original: P003 PRI)
      I004 XfadeStrgs 2-PRI        (original: P004 PRI)
      I005 XfadeStrgs 2-SEC        (original: P004 SEC)
      I006 TruncStrgs 1-PRI        (original: P005 PRI)
      I007 SynthStrgs 1-PRI        (original: P006 PRI)
      I008 SynthStrgs 2-PRI        (original: P007 PRI)
      I009 SynthStrgs 3-PRI        (original: P008 PRI)
-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                         Please enter your choice:
```

13) At the end of subreport 2 we can see an example of an "incompatibility" that has been detected. Some voices in the Emulator-II bank file are probably not used by any preset, so EMXP has not converted these voices. To leave the report we press ESCAPE.

```
              REPORT: COPY/CONVERSION TO SOUNDFONT2 BANK FILE(S)
-------------------------------------------------------------------------------
     I009 XfadeGuitar-SEC         (original: P005 SEC)

  Presets that have NOT been translated:

  Samples that have NOT been translated:

  Voices that have NOT been translated:
    V0012 Guitar C#4*1    (Unused/Invalid/Out of Keyb/Exceeds #Layers)
    V0019 Guitar C#4*1    (Unused/Invalid/Out of Keyb/Exceeds #Layers)


  This conversion report has been written to file:
   EMUII2SF2_Acou Guitar_1.TXT
  which can be found in:
   C:\Users\Kris\Documents\EMXP\Logs\

  -----------------------------------------------------------------------------
  SUBREPORT 3 of 6:
  -----------------------------------------------------------------------------
-------------------------------------------------------------------------------
       [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                           Please enter your choice:
```

14) This is the end of guided tour #6. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #7: CONVERTING EMAX-II EMX FILES TO AN EMULATOR-IIIX BANK ON A HARD DISK IMAGE FILE

In this guided tour, we will convert a set of 2 EMAX-II EMX files (which form one sound bank) to an Emulator-IIIX sound bank on an Emulator-III hard disk image file.

1) After having started EMXP the main menu will appear. Since we want to convert EMU EMAX-II EMX files, we select menu function 1 by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------
                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences
-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

2) The following menu gives access to all EMU objects. We will convert EMAX-II EMX files, so we select menu function 2.

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------
              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files
-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

3) In the EMAX-II menu, we select menu function 2 to get an overview of EMAX-II EMX files.

```
                              EMAX-II SAMPLER MENU
-----------------------------------------------------------------------------

                1.  Manage EMAX-II Bank Files
                2.  Manage EMAX-II EMX Files
                3.  Manage EMAX-II Operating System Files
                4.  Manage EMAX-II Hard Disk Images
                5.  Manage EMAX-II Hard Disks
                6.  Manage EMAX-II Floppy Disk Images
                7.  Manage EMAX-II HxC Floppy Disk Images
                8.  Manage EMAX-I/EMAX-II Floppy Disks
                9.  Receive Samples from EMAX-II via RS422/MIDI

-----------------------------------------------------------------------------
            [1]...[9]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                          Please enter a menu option:
```

4) EMXP displays an overview of all EMAX-II EMX files in the current folder. We will convert the sound bank which is saved in EMX files "Brass&Winds_1" and "Brass&Winds_2". *For the sake of the example we select the second EMX file of the bank instead of the first or both EMX files.* To select file "Brass&Winds_2" we have to select item 15. This can be done in two ways: either by entering "15" on the keyboard, or by moving the cursor ("] [") to item 15 with the UP and DOWN keys and pressing the SPACE bar . Once the item is selected, the selector in front of the item changes into "]X[". We press ENTER to launch the EMX menu. *As an alternative, we can immediately jump to the EMAX-II conversion menu by pressing short cut key "C".*

```
                              EMAX-II EMX FILE OVERVIEW
          -----------------------------------------------------------------------------
          CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax II\Other\EMX Images\
          -----------------------------------------------------------------------------
            [ ]  01. -- CHANGE FOLDER --
            [ ]  02. Boys Choir 8_1                 Boys Choir #Pres: 14  #Samp: 18
            [ ]  03. Boys Choir 8_10                Boys Choir #Pres: 14  #Samp: 18
            [ ]  04. Boys Choir 8_11                Boys Choir #Pres: 14  #Samp: 18
            [ ]  05. Boys Choir 8_12                Boys Choir #Pres: 14  #Samp: 18
            [ ]  06. Boys Choir 8_2                 Boys Choir #Pres: 14  #Samp: 18
            [ ]  07. Boys Choir 8_3                 Boys Choir #Pres: 14  #Samp: 18
            [ ]  08. Boys Choir 8_4                 Boys Choir #Pres: 14  #Samp: 18
            [ ]  09. Boys Choir 8_5                 Boys Choir #Pres: 14  #Samp: 18
            [ ]  10. Boys Choir 8_6                 Boys Choir #Pres: 14  #Samp: 18
            [ ]  11. Boys Choir 8_7                 Boys Choir #Pres: 14  #Samp: 18
            [ ]  12. Boys Choir 8_8                 Boys Choir #Pres: 14  #Samp: 18
            [ ]  13. Boys Choir 8_9                 Boys Choir #Pres: 14  #Samp: 18
            [ ]  14. Brass&Winds_1                  WINDS&BRAS #Pres: 36  #Samp: 31
            ]X[  15. Brass&Winds_2                  WINDS&BRAS #Pres: 36  #Samp: 31
            [ ]  16. Mandolin 8M_1                  Mandolin 8 #Pres: 19  #Samp: 47
          -----------------------------------------------------------------------------
          [SPACE|01-31]Select [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
          [+]More [P]Presets_ [S]Samples_ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
          -----------------------------------------------------------------------------
                                    Please enter your choice:
```

1

2

5) In the EMX menu, we select menu function 2. *As explained in step 4, a faster method to start the conversion process is using the "C" shortcut key in the source bank overview screen.*

```
                          EMAX-II EMX FILE MENU
-----------------------------------------------------------------------------

                  1.  Copy to other EMAX-II File or Disk
                  2.  Convert to Other Sampler Format
                  3.  Extract all Samples to WAV Files
                  4.  Play all EMAX-II Samples
                  5.  Create Bank/Preset Overview Report
                  6.  Show Presets
                  7.  Show Samples
                  8.  Show Bank Details


-----------------------------------------------------------------------------
            [1]...[8]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                        Please enter a menu option:
```

6) In the conversion menu we select menu function 6 to launch the submenu for choosing between the Emulator-IIIX format and the ESI-v3 format.

```
                       SELECT TARGET SAMPLER FORMAT
-----------------------------------------------------------------------------

             1.  Convert to EMAX-I Sampler Format
             2.  Convert to EMAX-II Sampler Format
             3.  Convert to EMULATOR-I Sampler Format
             4.  Convert to EMULATOR-II Sampler Format
             5.  Convert to EMULATOR-III Sampler Format
             6.  Convert to EMULATOR-IIIX/ESI-V3 Sampler Format
             7.  Convert to SOUNDFONT2 Sampler Format
             8.  Convert to SP-12 Sampler Format


-----------------------------------------------------------------------------
            [1]...[8]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                        Please enter a menu option:
```

7) We select menu function 1 to start the conversion to the Emulator-IIIX format.

```
                    SELECT TARGET SAMPLER FORMAT
-------------------------------------------------------------------------
                1.  Convert to EMULATOR-IIIX Sampler Format
                2.  Convert to ESI-V3 Sampler Format
-------------------------------------------------------------------------
            [1]...[2]: menu option                ESC: Go back
-------------------------------------------------------------------------
                     Please enter a menu option:
```

8) We are going to convert the EMAX-II EMX files directly to a bank on an Emulator-III hard disk image file, so we select menu function 2 in the next menu.

```
            PLEASE SELECT A TARGET EMULATOR-IIIX FILE/DISK TYPE
-------------------------------------------------------------------------
          1.  Convert to EMULATOR-IIIX Bank in Bank File(s)
          2.  Convert to EMULATOR-IIIX Bank on Hard Disk Image File
          3.  Convert to EMULATOR-IIIX Bank on Hard Disk
-------------------------------------------------------------------------
            [1]...[3]: menu option                ESC: Go back
-------------------------------------------------------------------------
                     Please enter a menu option:
```

9) EMXP now asks whether the conversion of the selected files should be done in an automated (batch) mode with minimal user intervention, or rather in a fully controlled item-per-item manual mode. In our example we want to have full control of the conversion process so we select the second item and press ENTER. *But in most cases, an automated (batch) conversion is sufficient and moreover it's a faster method.*

```
        DEFINE WHETHER EMXP SHOULD COPY/CONVERT ITEMS AUTOMATICALLY OR NOT
-------------------------------------------------------------------------------
[ ]  1. Yes, copy/convert items as automated as possible              (BATCH)
]X[  2. No, user should have maximum control                         (MANUAL)
[ ]  3. Use custom automation level                                   (BATCH)

          BATCH: All selected items will be copied/converted
            automatically using the copy/conversion preferences, e.g.
            for sample rates. You only have to specify the folder/disk where
            the copied/converted items should be saved.
          MANUAL: You can define all copy/conversion parameters and
            you can specify the destination (e.g. target file names) for each
            copied/converted item. Define which parts of
            the copy/conversion process should be manual or automated.
          SEMI-MANUAL: The current copy/conversion settings can be a
            mix of manual and automated processing, as has been configured
            previously in MANUAL or SEMI-MANUAL mode.

[ ]  4. Don't show this screen anymore
-------------------------------------------------------------------------------
[SPACE|1-4]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------------
                          Please enter your choice: _
```

10) We have to decide now whether EMXP can take decisions itself or whether we want to have manual control regarding:

- the location (bank number) in the target hard disk image file where the converted bank should be saved
- finding the related EMX files which "belong" to the same bank as the originally selected EMX file
- errors and exceptions which may occur during the conversion process.

We want to have maximum user control, so we select items 1, 3 and 5 and press ENTER.

```
        SPECIFY TO WHAT EXTENT EMXP CAN AUTOMATICALLY PROCESS SELECTED ITEMS
-------------------------------------------------------------------------------
        PLEASE SPECIFY HOW THE TARGET BANK LOCATIONS SHOULD BE CHOSEN
]X[     1. Select locations for storing banks on target hd image yourself
[ ]     2. Let EMXP store banks in empty bank locations on target hd image

        IF EMXP DETECTS RELATED PARTIAL FILES (E.G. 2 EMX FILES FOR 1 BANK)
[X]     3. Always ask for confirmation that the correct file has been found
[ ]     4. EMXP can automatically assume that the correct file has been found

        IN CASE OF AN ERROR OR A CONFLICT WITH SAMPLER LIMITS OR PREFERENCES
[X]     5. Always show a message or ask confirmation for solving the problem
[ ]     6. EMXP can skip the item or decide itself how to solve the problem

-------------------------------------------------------------------------------
[SPACE|1-6]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------------
                          Please enter your choice: _
```

11) We have to provide some sampler conversion parameters now. The first parameter that we have to define is the memory size of the target Emulator-IIIX sampler. In our example we assume the sampler only contains 8MB of memory, so we select item number 1. Note that the available memory sizes are not limited to the Emulator-IIIX sampler only: the Emulator-IIIX format is also used as the ESI-v2 format on ESI samplers, so the RAM configurations of the ESI sampler range can be chosen as well. *The EMAX-II bank consists of only 2 EMX files, so the source bank will not be larger than 1MB. As a consequence the converted bank will for sure fit in the 8MB memory size of the Emulator-IIIX. But if it wouldn't fit, EMXP would try to split the converted bank into multiple Emulator-IIIX banks, each containing an amount of presets and samples which would fit in the 8MB memory space.*

```
                    SUPPORTED EMULATOR-IIIX SAMPLER SIZES
-------------------------------------------------------------------------------
            [ ]  01. EMU-IIIX 2MB        (ESI32)
            [ ]  02. EMU-IIIX 4MB        (ESI32, ESI4K)
            ]X[  03. EMU-IIIX 8MB        (EIIIX, ESI32, ESI4K)
            [ ]  04. EMU-IIIX 16MB       (EIIIX, ESI4K)
            [ ]  05. EMU-IIIX 18MB       (ESI4K)
            [ ]  06. EMU-IIIX 24MB       (EIIIX)
            [ ]  07. EMU-IIIX 32MB       (EIIIX, ESI32, ESI4K)
            [ ]  08. EMU-IIIX 64MB       (ESI4K)
            [ ]  09. EMU-IIIX 66MB       (ESI4K)
            [ ]  10. EMU-IIIX 72MB       (ESI4K)
            [ ]  11. EMU-IIIX 128MB      (ESI4K)

-------------------------------------------------------------------------------
[SPACE|01-11]Select __________ __________ [U/D]Scroll [ESC]Back___ [RET]Go____
-------------------------------------------------------------------------------
                         Please enter your choice:
```

12) When converting from the EMAX-II format to the Emulator-IIIX format, EMXP can also change the sample rate of the samples. A maximum and a minimum sample rate can be defined. For some samplers (like the EMAX-I and Emulator-III) the maximum sample rate determines the transposition range of the samples. The Emulator-IIIX however does not have any transposition constraints. And since we don't need to decrease the size of the bank neither (which can also be obtained by reducing the maximum sample rate), we simply select the maximum sample rate available (50000 Hz, item 14) and press ENTER.

```
          MAXIMUM ALLOWED SAMPLERATE OF TARGET EMULATOR-IIIX SAMPLES
-------------------------------------------------------------------------------
                        [ ]  01. Maximum 7000 Hz
                        [ ]  02. Maximum 10000 Hz
                        [ ]  03. Maximum 12000 Hz
                        [ ]  04. Maximum 15250 Hz
                        [ ]  05. Maximum 18000 Hz
                        [ ]  06. Maximum 22050 Hz
                        [ ]  07. Maximum 25000 Hz
                        [ ]  08. Maximum 27778 Hz
                        [ ]  09. Maximum 31250 Hz
                        [ ]  10. Maximum 33333 Hz
                        [ ]  11. Maximum 39033 Hz
                        [ ]  12. Maximum 44100 Hz
                        [ ]  13. Maximum 48000 Hz
                        ]X[  14. Maximum 50000 Hz

-------------------------------------------------------------------------------
[SPACE|01-14]Select __________ __________ [U/D]Scroll [ESC]Back___ [RET]Go____
-------------------------------------------------------------------------------
                         Please enter your choice:
```

13) The minimum sample rate can be set as well. When converting sound banks, EMXP will never use sample rates lower than the one defined here, except if the original sample's sample rate is even lower. In our example we let EMXP keep the original sample's sample rate, so we select the highest minimum sample rate available: 50000 Hz (item 14). In this case EMXP will use the sample rate of the original samples, because EMAX-II sample rates are always lower than 50000 Hz...

```
          MINIMUM ALLOWED SAMPLERATE OF TARGET EMULATOR-IIIX SAMPLES
-------------------------------------------------------------------------------
            [ ]  01. Original sample rate or minimum 7000 Hz
            [ ]  02. Original sample rate or minimum 10000 Hz
            [ ]  03. Original sample rate or minimum 12000 Hz
            [ ]  04. Original sample rate or minimum 15250 Hz
            [ ]  05. Original sample rate or minimum 18000 Hz
            [ ]  06. Original sample rate or minimum 22050 Hz
            [ ]  07. Original sample rate or minimum 25000 Hz
            [ ]  08. Original sample rate or minimum 27778 Hz
            [ ]  09. Original sample rate or minimum 31250 Hz
            [ ]  10. Original sample rate or minimum 33333 Hz
            [ ]  11. Original sample rate or minimum 39033 Hz
            [ ]  12. Original sample rate or minimum 44100 Hz
            [ ]  13. Original sample rate or minimum 48000 Hz
            ]X[  14. Original sample rate or minimum 50000 Hz
1

-------------------------------------------------------------------------------
[SPACE|01-14]Select __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------------
                         Please enter your choice:
                                                                          2
```

14) When saving banks on an Emulator-III/X/ESI hard disk or hard disk image, we can ask EMXP to correct the bank names according to the bank naming rules applied by the Emulator-IIIX and ESI samplers. When these samplers are saving banks in E3X format, they always add an 'X' on the last position of the bank name. And when they save banks in original E3 format, they make sure there's no 'X' on the last position of the bank name. This makes it easy to derive whether a bank is in Emulator-III or rather in Emulator-IIIX format when scrolling through the banks on the Emulator-III/IIIX sampler. The default setting is OK for us, so we select item 2 and press ENTER. By selecting this option, the bank name will get the 'X' suffix.

```
          PLEASE SPECIFY HOW BANKS SHOULD BE NAMED WHEN COPYING OR CONVERTING BANKS
                          TO EMULATOR-III/X/ESI HARD DISK IMAGES
        -------------------------------------------------------------------------
            [ ]  1. Add suffix 'X' for EIIIX banks, remove it for EIII/ESI3 banks
            ]X[  2. Add suffix 'X' for EIIIX banks, don't remove it for EIII/ESI3 banks
            [ ]  3. Keep the bank name of the source EIII, EIIIX or ESI3 bank
1

        -------------------------------------------------------------------------
        [SPACE|1-3]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
        -------------------------------------------------------------------------
                                 Please enter your choice:
                                                                          2
```

15) In the next screen we have to select the target Emulator-IIIX hard disk image file to which the converted bank should be saved. We select the file named "User Banks.EZ3" by selecting item number 2, and press ENTER. *Note: EMXP also supports SCSI2SD hard disk image files which contain multiple devices/partitions. If we would like to convert the banks to an Emulator-III partition in such a SCSI2SD hard disk image file, we would have to press "C" to perform a SCSI2SD scan. This is not illustrated here because the hard disk image files in this example are all normal, un-partitioned hard disk image files. The SCSI2SD disk capabilities of EMXP have been explained in* GUIDED TOUR #5: COPYING AN EMAX-II BANK FROM ONE SCSI2SD PARTITION TO ANOTHER SCSI2SD PARTITION. *These capabilities are similar for SCSI2SD files*

```
                    SELECT TARGET EMULATOR-IIIX HARD DISK IMAGE FILE
-----------------------------------------------------------------------------
      CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emulator III\
-----------------------------------------------------------------------------
  [ ]  01. -- CHANGE FOLDER --
  ]X[  02. User Banks                      #Bank: 0   %Used:   1      239MB
  [ ]  03. Vol 1  Emulator Standards       #Bank: 45  %Used:  60      286MB
  [ ]  04. Vol 2  More Emulator Standards  #Bank: 45  %Used:  82      286MB
  [ ]  05. Vol 3  Orchestral               #Bank: 47  %Used:  44      502MB
  [ ]  06. Vol 4  Sound FX                 #Bank: 29  %Used:  29      502MB
  [ ]  07. Vol 5  World Instruments        #Bank: 36  %Used:  43      502MB
  [ ]  08. Vol 6  World Percussion         #Bank: 23  %Used:  26      502MB
  [ ]  09. Vol 7  Classics                 #Bank: 20  %Used:  48      502MB
  [ ]  10. Vol 8  Vintage                  #Bank: 14  %Used:  18      502MB

-----------------------------------------------------------------------------
[SPACE|01-10]Select __________ __________ [ARW]Scroll [ESC]Back___ [RET]Go____
[D]Details_________ [C]SCSI2SD_ [G]SDConfig [N]SortName [T]SortTime [Z]SortSize
-----------------------------------------------------------------------------
                          Please enter your choice:
```

16) EMXP raises a warning now: hard disk image files may be important backup files. Perhaps we don't want to change the contents of the selected file, because we want to be able to restore the file to a hard disk again. In our example however the image file is NOT a backup file - it's simply an empty hard disk image file in which we will start to intentionally save banks. When the file will be fully loaded, we will copy it (restore it) to a hard disk for use in an Emulator-IIIX sampler.
We confirm that the file can be overwritten by pressing "Y" on the keyboard. If you never want EMXP to ask for this confirmation anymore when you attempt to copy data to or remove data from *any E-Mu hard disk image* in the future, you can press "A" on the keyboard. This setting can be undone later in the Preferences menu.

```
                              PLEASE CONFIRM
-----------------------------------------------------------------------------


                              User Banks.EZ3
      may be an important backup of one of your EMULATOR-IIIX disks.
 Are you sure you want to copy files to this EMULATOR-IIIX hard disk image ?
     Press [A] to always copy to hard disk images and never ask again,
        or press [Y]es to copy to a hard disk image this time only,
                     or press any other key to cancel.


-----------------------------------------------------------------------------
 [Y]:Yes, this time only        [A]:Yes, always        [Any other key]:No
-----------------------------------------------------------------------------
                      Choose [Y]es, [A]lways or [N]o:
```

17) EMXP will start collecting and reading all EMX files which are required to assemble the source EMAX-II sound bank. Based on the original file that we have selected (which was part 2 of the sound bank), EMX searches the current folder for the first EMX file belonging to the same bank. When EMXP thinks it has found the correct file, it displays a file overview in which the matching file has been pre-selected. In step 9 we instructed EMXP to ask for confirmation by the user when searching for related EMX files. So that's exactly what we have to do now: we confirm that the pre-selected file "Brass&Winds_1" is OK and simply press ENTER.

```
            PROCESSING ITEM 1/1 - THE BANK SPANS MULTIPLE EMX FILES
           PLEASE SELECT EMX FILE 1 OF 2 OF EMAX-II BANK WINDS&BRASS
-------------------------------------------------------------------------------
CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax II\Other\EMX Images\
-------------------------------------------------------------------------------
  [ ]  01. -- CHANGE FOLDER --
  [ ]  02. Boys Choir 8_1                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  03. Boys Choir 8_10                Boys Choir #Pres: 14  #Samp: 18
  [ ]  04. Boys Choir 8_11                Boys Choir #Pres: 14  #Samp: 18
  [ ]  05. Boys Choir 8_12                Boys Choir #Pres: 14  #Samp: 18
  [ ]  06. Boys Choir 8_2                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  07. Boys Choir 8_3                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  08. Boys Choir 8_4                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  09. Boys Choir 8_5                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  10. Boys Choir 8_6                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  11. Boys Choir 8_7                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  12. Boys Choir 8_8                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  13. Boys Choir 8_9                 Boys Choir #Pres: 14  #Samp: 18
  ]X[  14. Brass&Winds_1                  WINDS&BRAS #Pres: 36  #Samp: 31
  [ ]  15. Brass&Winds_2                  WINDS&BRAS #Pres: 36  #Samp: 31
-------------------------------------------------------------------------------
[SPACE|01-31]Select __________ ___________ [ARW]Scroll [ESC]Back___ [RET]Go____
___________________ [D]Details_ [N]SortName [T]SortTime [Z]SortSize ___________
-------------------------------------------------------------------------------
                         Please enter your choice:
```

18) After having read the first EMX file, EMXP searches the current folder again for the second EMX file. When EMXP thinks it has found the second file, it displays a file overview again, and this time the second EMX file has been pre-selected in that overview. File "Brass&Winds_2" is indeed the second part of the sound bank, so we agree with EMXP's choice and press ENTER.

```
            PROCESSING ITEM 1/1 - THE BANK SPANS MULTIPLE EMX FILES
           PLEASE SELECT EMX FILE 2 OF 2 OF EMAX-II BANK WINDS&BRASS
-------------------------------------------------------------------------------
CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax II\Other\EMX Images\
-------------------------------------------------------------------------------
  [ ]  01. -- CHANGE FOLDER --
  [ ]  02. Boys Choir 8_1                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  03. Boys Choir 8_10                Boys Choir #Pres: 14  #Samp: 18
  [ ]  04. Boys Choir 8_11                Boys Choir #Pres: 14  #Samp: 18
  [ ]  05. Boys Choir 8_12                Boys Choir #Pres: 14  #Samp: 18
  [ ]  06. Boys Choir 8_2                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  07. Boys Choir 8_3                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  08. Boys Choir 8_4                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  09. Boys Choir 8_5                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  10. Boys Choir 8_6                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  11. Boys Choir 8_7                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  12. Boys Choir 8_8                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  13. Boys Choir 8_9                 Boys Choir #Pres: 14  #Samp: 18
  [ ]  14. Brass&Winds_1                  WINDS&BRAS #Pres: 36  #Samp: 31
  ]X[  15. Brass&Winds_2                  WINDS&BRAS #Pres: 36  #Samp: 31
-------------------------------------------------------------------------------
[SPACE|01-31]Select __________ ___________ [ARW]Scroll [ESC]Back___ [RET]Go____
___________________ [D]Details_ [N]SortName [T]SortTime [Z]SortSize ___________
-------------------------------------------------------------------------------
                         Please enter your choice:
```

19) Finally we have to select the bank location in the target hard disk image file to which the converted bank will be saved (in step 10 we instructed EMXP not to take decisions about the target bank locations by itself). We select the very first empty bank location B00 by selecting item 001 and we press ENTER.

```
   PROCESSING ITEM 1/1 - CONVERTING EMAX-II BANK FROM FILE Brass&Winds_2.EM2
     PLEASE SELECT A TARGET LOCATION IN THE EMU-III/X HARD DISK IMAGE FILE
-------------------------------------------------------------------------
                ]X[  001. B00 --Empty Bank--          0 Kb
                [ ]  002. B01 --Empty Bank--          0 Kb
                [ ]  003. B02 --Empty Bank--          0 Kb
                [ ]  004. B03 --Empty Bank--          0 Kb
                [ ]  005. B04 --Empty Bank--          0 Kb
                [ ]  006. B05 --Empty Bank--          0 Kb
                [ ]  007. B06 --Empty Bank--          0 Kb
                [ ]  008. B07 --Empty Bank--          0 Kb
                [ ]  009. B08 --Empty Bank--          0 Kb
                [ ]  010. B09 --Empty Bank--          0 Kb
                [ ]  011. B10 --Empty Bank--          0 Kb
                [ ]  012. B11 --Empty Bank--          0 Kb
                [ ]  013. B12 --Empty Bank--          0 Kb
                [ ]  014. B13 --Empty Bank--          0 Kb
                [ ]  015. B14 --Empty Bank--          0 Kb
                [ ]  016. B15 --Empty Bank--          0 Kb
                [ ]  017. B16 --Empty Bank--          0 Kb
                [ ]  018. B17 --Empty Bank--          0 Kb
-------------------------------------------------------------------------
[SPACE|001-100]Slct __________ __________ [U/D]Scroll [ESC]Back___ [RET]Go____
-------------------------------------------------------------------------
                         Please choose a target bank:
```

20) EMXP has successfully converted the EMAX-II sound bank from the two original EMX files into an Emulator-IIIX bank on location B00 of the hard disk image file. A conversion execution report is displayed at the end of the conversion process. This report has been saved to disk as well; the folder and file name of the report can be found at the end of the report. The first part of the report explains which banks/files have been converted to which banks/files. We can browse through the report by scrolling with the UP and DOWN keys or with the PAGE UP and PAGE DOWN keys.

```
      REPORT: COPY/CONVERSION TO EMULATOR-IIIX HARD DISK IMAGE FILE(S)
-------------------------------------------------------------------------
 1 selected file has been processed
  (and an additional related file was processed too)

 -----------------------------------------------------------------------

 EMAX-II EMX files (Bank WINDS&BRASS):
   #1 (1): Brass&Winds_1.EM2
   #2 (2): Brass&Winds_2.EM2
     in C:\Users\Kris\Documents\EMXP\Images\Emax II\Other\EMX Images\
 ...HAVE BEEN CONVERTED TO...
 Bank B000 WINDS&BRASS    X in EIII/X/ESI hard disk image file:
   User Banks.EZ3
     in C:\Users\Kris\Documents\EMXP\Images\Emulator III\
 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
 CONVERSION REPORT:

 EMAX-II bank "WINDS&BRASS"
   has been translated to 1 EMU-IIIX banks.

-------------------------------------------------------------------------
     [UP/DOWN]        [PGUP/PGDN]        [HOME/END]          [ESC]
-------------------------------------------------------------------------
                         Please enter your choice:
```

21) After having scrolled down a few lines, we can find an overview of the presets generated in the target Emulator-IIIX bank. We also observe that 2 presets have not been translated. Let's scroll down by pressing the PAGE DOWN or DOWN arrow key.

```
      REPORT: COPY/CONVERSION TO EMULATOR-IIIX HARD DISK IMAGE FILE(S)
-----------------------------------------------------------------------------
 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
 CONVERSION REPORT:

 EMAX-II bank "WINDS&BRASS"
   has been translated to 1 EMU-IIIX banks.

 - 2 presets have NOT been translated (see end of report).
 - 0 samples have NOT been translated (see end of report).
 - 0 voices have NOT been translated (see end of report).

 All stereo voices have been preserved.

 EMU-IIIX bank overview:

 Bank 1: WINDS&BRASS    X
   Presets:
     P000 WINDS&BRASS      (original: P000)
     P001 Flute            (original: P001)
     P002 Oboe             (original: P002)
-----------------------------------------------------------------------------
     [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-----------------------------------------------------------------------------
                         Please enter your choice:
```

22) At the end of the report we can find the reason why 2 presets have not been converted: they are empty, and EMXP does not convert empty objects. We leave the report screen by pressing ESCAPE.

```
      REPORT: COPY/CONVERSION TO EMULATOR-IIIX HARD DISK IMAGE FILE(S)
-----------------------------------------------------------------------------
 Presets that have NOT been translated:
   P098 Justin Mayer       (Empty object)
   P099 EmuSystems90       (Empty object)

 Samples that have NOT been translated:

 Voices that have NOT been translated:


 This conversion report has been written to file:
  EMAXII2EMUIIIX_WINDS&BRASS_2.TXT
 which can be found in:
  C:\Users\Kris\Documents\EMXP\Logs\

 -----------------------------------------------------------------------------
 The full report has been written to file:
  EMXPCOPY2EMUIIIXLOG_20180511134836015.TXT
 which can be found in:
  C:\Users\Kris\Documents\EMXP\Logs\
-----------------------------------------------------------------------------
     [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-----------------------------------------------------------------------------
                         Please enter your choice:
```

23) This is the end of guided tour #7. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #8: CONVERTING AN EMULATOR-III CDROM INTO AN EMAX-II HARD DISK

In this guided tour, we will convert an entire Emulator-III cdrom into an EMAX-II hard disk. This means we will copy and convert all banks on the Emulator-III cdrom to an empty EMAX-II formatted hard disk.

1) After having started EMXP the main menu will appear. Since we want to convert an EMU Emulator-III cdrom, we select menu function 1 by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------
                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences
-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

2) The Emu Sampler menu will appear. Since we want to convert an Emulator-III cdrom, we select menu function 5 by pressing "5" on the keyboard of the computer.

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------
              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files
-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

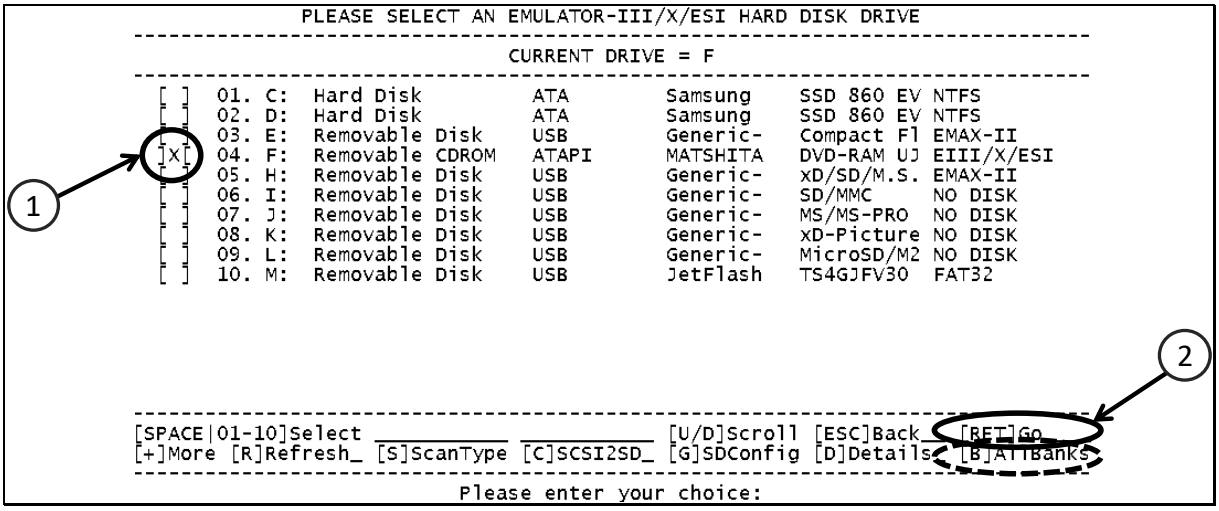
3) In the Emulator-III menu, we select menu function 5 to access the Emulator-III cdrom that we have inserted into the cdrom drive.

```
                        EMULATOR-III/X/ESI SAMPLER MENU
-------------------------------------------------------------------------------

          1.  Manage EMULATOR-III Bank Files

          2.  Manage EMULATOR-IIIX Bank Files

          3.  Manage ESI-V3 Bank Files

          4.  Manage EMULATOR-III/X/ESI Hard Disk Images

          5.  Manage EMULATOR-III/X/ESI Hard Disks

          6.  Manage EMULATOR-III Operating System Files and Disks

          7.  Manage EMULATOR-IIIX Operating System Files and Disks



-------------------------------------------------------------------------------
            [1]...[7]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

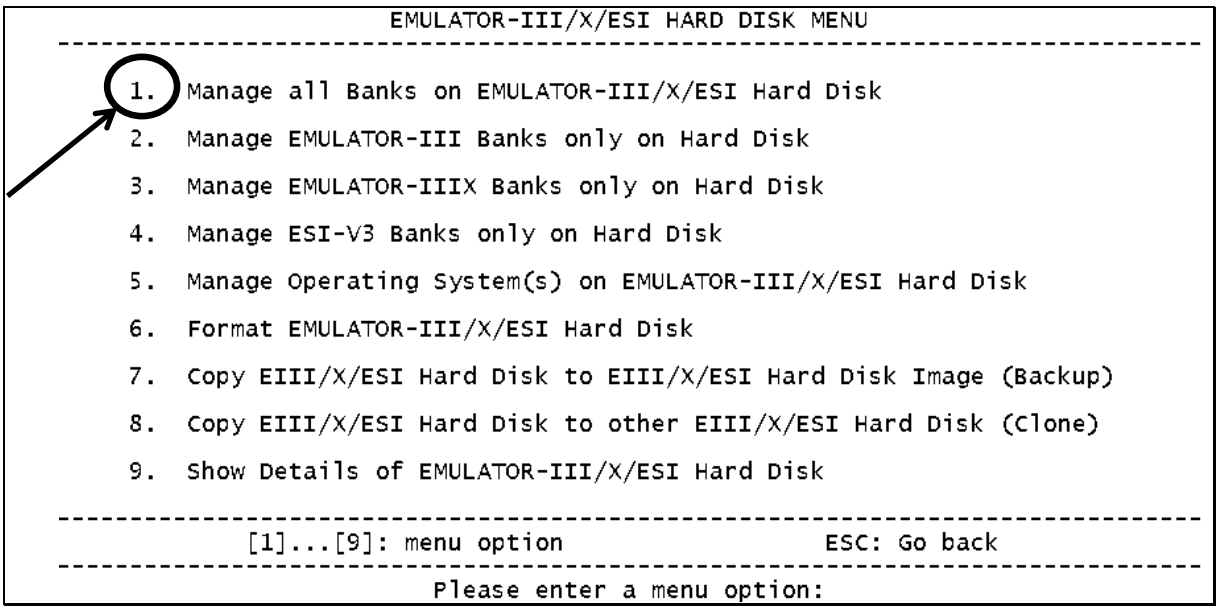
4) EMXP launches the Disk Manager now and displays all drives that has been found in the computer. We press "S" on the keyboard. This is a "short cut key" for re-scanning the drives but this time EMXP will try to detect the type of the disk in each drive as well.

```
              PLEASE SELECT AN EMULATOR-III/X/ESI HARD DISK DRIVE
-------------------------------------------------------------------------------
                                CURRENT DRIVE = F
-------------------------------------------------------------------------------
  [ ]  01. C:  Hard Disk         ATA        Samsung    SSD 860 EV DISK FOUND
  [ ]  02. D:  Hard Disk         ATA        Samsung    SSD 860 EV DISK FOUND
  [ ]  03. E:  Removable Disk    USB        Generic-   Compact Fl DISK FOUND
 ]X[   04. F:  Removable CDROM   ATAPI      MATSHITA   DVD-RAM UJ DISK FOUND
  [ ]  05. H:  Removable Disk    USB        Generic-   xD/SD/M.S. DISK FOUND
  [ ]  06. I:  Removable Disk    USB        Generic-   SD/MMC     NO DISK
  [ ]  07. J:  Removable Disk    USB        Generic-   MS/MS-PRO  NO DISK
  [ ]  08. K:  Removable Disk    USB        Generic-   xD-Picture NO DISK
  [ ]  09. L:  Removable Disk    USB        Generic-   MicroSD/M2 NO DISK
  [ ]  10. M:  Removable Disk    USB        JetFlash   TS4GJFV30  DISK FOUND




-------------------------------------------------------------------------------
[SPACE|01-10]Select_ _________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_ [B]AllBanks
-------------------------------------------------------------------------------
                          Please enter your choice:
```

5) When the drive-scan is completed, EMXP updates the drive overview screen. In the rightmost column we can see the type of each disk. Drive F is the cdrom drive containing an Emulator-III cdrom. So we select item 4, either by moving the cursor ("] [") with the UP and DOWN keys to that item and pressing the SPACE bar, or simply by entering "04" on the keyboard or "4" followed by ENTER. Then we press ENTER to launch the hard disk menu. Instead of pressing ENTER, it's also possible to press the shortcut key "B" to immediately get an overview of the sound banks on the cdrom and bypass the hard disk menu. *Note: all menu functions can be accessed directly via these shortcut keys. We can press "+" to scroll through all available shortcut keys at the bottom line of the screen. In addition we can also press "R" to refresh the drive overview (e.g. after we plugged another hard disk drive into an USB port) and we can press "S" to let EMXP detect which type of disk is inserted in each of the drives. It's also possible to scan for SCSI2SD partitions on a drive by pressing "C", but that feature is explained in "GUIDED TOUR #5: COPYING AN EMAX-II BANK FROM ONE SCSI2SD PARTITION TO ANOTHER SCSI2SD PARTITION".*



6) In the hard disk menu, we select menu function 1 to get an overview of all banks on the Emulator-III cdrom. *As explained in step 5, there's a faster way of getting the sound bank overview of a hard disk by using the "B" shortcut key in the drive overview screen.*



7) In the bank overview of the Emulator III cdrom (Volume 1 - Emulator Standards), we select all banks. The easiest way to do this is pressing "A" on the keyboard. *Alternatively we can also use the "mark" method: we press "M', then we move the cursor to the first item with the UP and DOWN keys and we press the SPACE bar to mark the start of the selection area. Then we press the DOWN key until the cursor is at the last item, and we press the SPACE bar again.*

```
                    EMULATOR-III/X/ESI HARD DISK BANK OVERVIEW
--------------------------------------------------------------------------------
  ]X[  01. B00 (invalid bank)    -CORRUPT-  Error: 4
  [X]  02. B01 Full Arco String   EMU-III   #Pres: 35  #Samp: 14  3776 Kb
  [X]  03. B02 SecViolinTrils4M   EMU-III   #Pres: 22  #Samp: 36  4080 Kb
  [X]  04. B03 SecViolinTrils8M   EMU-III   #Pres: 19  #Samp: 36  8137 Kb
  [X]  05. B04 Solo Violin        EMU-III   #Pres: 28  #Samp: 19  2776 Kb
  [X]  06. B05 Stereo Strings     EMU-III   #Pres: 19  #Samp: 14  3174 Kb
  [X]  07. B06 Textural Strings   EMU-III   #Pres: 24  #Samp: 18  3477 Kb
  [X]  08. B07 Brass Bank         EMU-III   #Pres: 44  #Samp: 38  3116 Kb
  [X]  09. B08 4 Piece Horns 4M   EMU-III   #Pres: 34  #Samp: 40  3384 Kb
  [X]  10. B09 4 Piece Horns 8M   EMU-III   #Pres: 34  #Samp: 40  6727 Kb
  [X]  11. B10 Solo Trombone 4M   EMU-III   #Pres: 33  #Samp: 49  3982 Kb
  [X]  12. B11 Solo Trumpet 4M    EMU-III   #Pres: 44  #Samp: 41  3087 Kb
  [X]  13. B12 Solo Trumpet 8M    EMU-III   #Pres: 35  #Samp: 41  6123 Kb
  [X]  14. B13 Stereo F Horns     EMU-III   #Pres: 14  #Samp: 7   3086 Kb
  [X]  15. B14 Dance Club         EMU-III   #Pres: 58  #Samp: 34  4066 Kb
  [X]  16. B15 Groupo Sinfonia    EMU-III   #Pres: 52  #Samp: 44  3998 Kb
  [X]  17. B16 OrchestralComp#1   EMU-III   #Pres: 52  #Samp: 81  4098 Kb
  [X]  18. B17 Rock Party,Dudes   EMU-III   #Pres: 74  #Samp: 51  3995 Kb
--------------------------------------------------------------------------------
[SPACE|01-45]Select [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More ___________ ___________ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
--------------------------------------------------------------------------------
                          Please enter your choice:
```

8) The first item in the selection list contains an invalid bank, but this bank will be ignored by EMXP during the conversion process. We press "C" to launch the conversion menu.

```
                    EMULATOR-III/X/ESI HARD DISK BANK OVERVIEW
--------------------------------------------------------------------------------
  ]X[  01. B00 (invalid bank)    -CORRUPT-  Error: 4
  [X]  02. B01 Full Arco String   EMU-III   #Pres: 35  #Samp: 14  3776 Kb
  [X]  03. B02 SecViolinTrils4M   EMU-III   #Pres: 22  #Samp: 36  4080 Kb
  [X]  04. B03 SecViolinTrils8M   EMU-III   #Pres: 19  #Samp: 36  8137 Kb
  [X]  05. B04 Solo Violin        EMU-III   #Pres: 28  #Samp: 19  2776 Kb
  [X]  06. B05 Stereo Strings     EMU-III   #Pres: 19  #Samp: 14  3174 Kb
  [X]  07. B06 Textural Strings   EMU-III   #Pres: 24  #Samp: 18  3477 Kb
  [X]  08. B07 Brass Bank         EMU-III   #Pres: 44  #Samp: 38  3116 Kb
  [X]  09. B08 4 Piece Horns 4M   EMU-III   #Pres: 34  #Samp: 40  3384 Kb
  [X]  10. B09 4 Piece Horns 8M   EMU-III   #Pres: 34  #Samp: 40  6727 Kb
  [X]  11. B10 Solo Trombone 4M   EMU-III   #Pres: 33  #Samp: 49  3982 Kb
  [X]  12. B11 Solo Trumpet 4M    EMU-III   #Pres: 44  #Samp: 41  3087 Kb
  [X]  13. B12 Solo Trumpet 8M    EMU-III   #Pres: 35  #Samp: 41  6123 Kb
  [X]  14. B13 Stereo F Horns     EMU-III   #Pres: 14  #Samp: 7   3086 Kb
  [X]  15. B14 Dance Club         EMU-III   #Pres: 58  #Samp: 34  4066 Kb
  [X]  16. B15 Groupo Sinfonia    EMU-III   #Pres: 52  #Samp: 44  3998 Kb
  [X]  17. B16 OrchestralComp#1   EMU-III   #Pres: 52  #Samp: 81  4098 Kb
  [X]  18. B17 Rock Party,Dudes   EMU-III   #Pres: 74  #Samp: 51  3995 Kb
--------------------------------------------------------------------------------
[SPACE|01-45]Select [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More ___________ ___________ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
--------------------------------------------------------------------------------
                          Please enter your choice:
```

9) Since we will convert the banks into EMAX-II format we select menu function 2 in the conversion menu.

```
                    SELECT TARGET SAMPLER FORMAT
-----------------------------------------------------------------------------

                1.  Convert to EMAX-I Sampler Format
                2.  Convert to EMAX-II Sampler Format
                3.  Convert to EMULATOR-I Sampler Format
                4.  Convert to EMULATOR-II Sampler Format
                5.  Convert to EMULATOR-III Sampler Format
                6.  Convert to EMULATOR-IIIX Sampler Format
                7.  Convert to ESI-V3 Sampler Format
                8.  Convert to SOUNDFONT2 Sampler Format
                9.  Convert to SP-12 Sampler Format
-----------------------------------------------------------------------------
          [1]...[9]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                    Please enter a menu option:
```

10) We will convert the banks to an EMAX-II hard disk, so we select menu function 6 in the next menu screen.

```
              PLEASE SELECT A TARGET EMAX-II FILE/DISK TYPE
-----------------------------------------------------------------------------

        1.  Convert to EMAX-II Bank in Bank File(s)
        2.  Convert to EMAX-II Bank in EMX File(s)
        3.  Convert to EMAX-II Bank on Floppy Disk Image File(s)
        4.  Convert to EMAX-II Bank in HxC Floppy Image File(s)
        5.  Convert to EMAX-II Bank on Hard Disk Image File
        6.  Convert to EMAX-II Bank on Hard Disk
        7.  Convert to EMAX-II Bank on Floppy Disk(s)



-----------------------------------------------------------------------------
          [1]...[7]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                    Please enter a menu option:
```

11) EMXP now asks whether the conversion of the selected banks should be done in an automated (batch) mode with minimal user intervention, or rather in a fully controlled item-per-item manual mode. Before starting the guided tour, we have already checked the conversion parameters for conversions to EMAX-II and we made sure their values have been set to produce EMAX-II banks with the highest conversion quality (regarding maximum memory size, maximum sample rates, stereo sample conversion, output channels and polyphony, ...). Moreover we want EMXP to select the bank locations on the target EMAX-II hard disk by itself; we don't want to have to select a target bank location manually for each of the 44 banks. So we will use the fully automated conversion mode. We select item 1 and press ENTER.

```
                DEFINE WHETHER EMXP SHOULD COPY/CONVERT ITEMS AUTOMATICALLY OR NOT
-------------------------------------------------------------------------------
]X[  1. Yes, copy/convert items as automated as possible              (BATCH)
[ ]  2. No, user should have maximum control                         (MANUAL)
[ ]  3. Use custom automation level                                   (BATCH)

          BATCH: All selected items will be copied/converted
            automatically using the copy/conversion preferences, e.g.
            for sample rates. You only have to specify the folder/disk where
            the copied/converted items should be saved.
          MANUAL: You can define all copy/conversion parameters and
            you can specify the destination (e.g. target file names) for each
            copied/converted item. Define which parts of
            the copy/conversion process should be manual or automated.
          SEMI-MANUAL: The current copy/conversion settings can be a
            mix of manual and automated processing, as has been configured
            previously in MANUAL or SEMI-MANUAL mode.

[ ]  4. Don't show this screen anymore
-------------------------------------------------------------------------------
[SPACE|1-4]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------------
                          Please enter your choice: _
```

12) EMXP launches the Disk Manager now and we have to select the target EMAX-II hard disk drive. The default drive overview does not show the disk type in the rightmost column, so we press "S" on the keyboard to scan the drives in order to find out which drive contains the EMAX-II hard disk. *We will copy the converted banks to a normal, un-partitioned EMAX-II CF card, so we don't use the "C" and "G" shortcut keys for performing a SCSI2SD scan.*

```
                    SELECT TARGET EMAX-II HARD DISK DRIVE
-------------------------------------------------------------------------------
                              CURRENT DRIVE = E
-------------------------------------------------------------------------------
  [ ]  01. C:  Hard Disk         ATA        Samsung    SSD 860 EV DISK FOUND
  [ ]  02. D:  Hard Disk         ATA        Samsung    SSD 860 EV DISK FOUND
  ]X[  03. E:  Removable Disk    USB        Generic-   Compact Fl DISK FOUND
  [ ]  04. F:  Removable CDROM   ATAPI      MATSHITA   DVD-RAM UJ DISK FOUND
  [ ]  05. H:  Removable Disk    USB        Generic-   xD/SD/M.S. DISK FOUND
  [ ]  06. I:  Removable Disk    USB        Generic-   SD/MMC     NO DISK
  [ ]  07. J:  Removable Disk    USB        Generic-   MS/MS-PRO  NO DISK
  [ ]  08. K:  Removable Disk    USB        Generic-   xD-Picture NO DISK
  [ ]  09. L:  Removable Disk    USB        Generic-   MicroSD/M2 NO DISK
  [ ]  10. M:  Removable Disk    USB        JetFlash   TS4GJFV30  DISK FOUND

-------------------------------------------------------------------------------
[SPACE|01-10]Select ____________________ [U/D]Scroll [ESC]Back__ [RET]Go____
_________________ [R]Refresh [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_
-------------------------------------------------------------------------------
                          Please enter your choice:
```

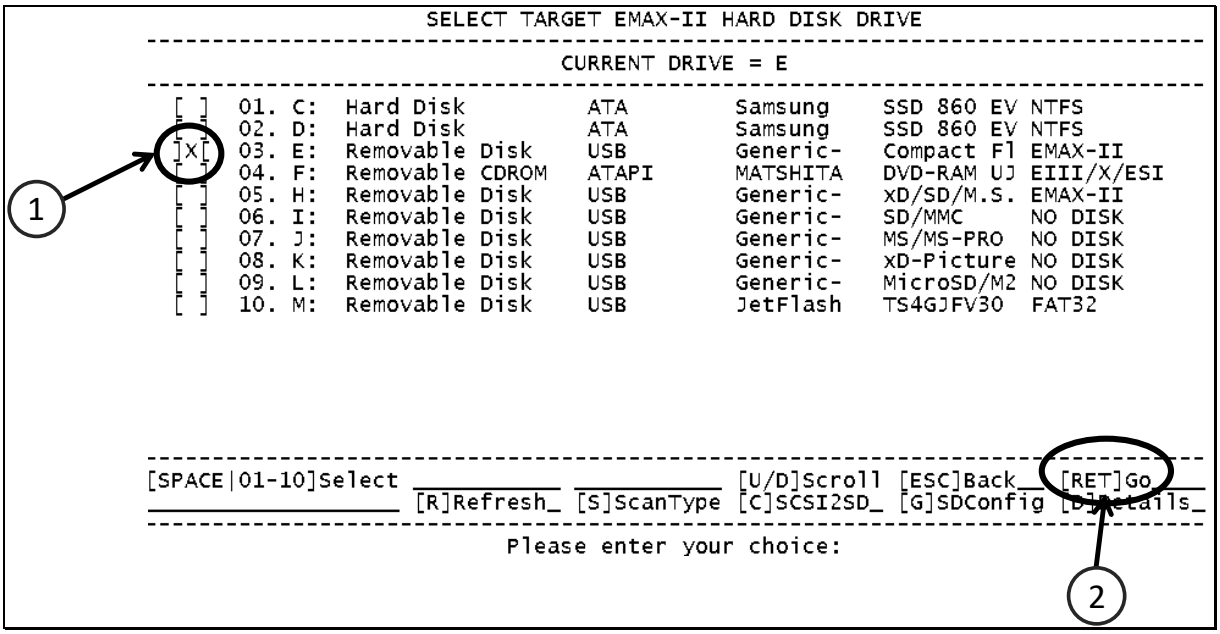
13) When the drive-scan is completed, EMXP updates the drive overview screen. In the rightmost column we can see the type of each disk. Both drives E and H are formatted for EMAX-II. Drive E should be the drive containing the empty formatted EMAX-II CF card, but to make sure it's indeed empty, we check the disk details or that drive by selecting item 3 and pressing "D".

```
                    SELECT TARGET EMAX-II HARD DISK DRIVE
-------------------------------------------------------------------------------
                              CURRENT DRIVE = E
-------------------------------------------------------------------------------
  [ ] 01. C:  Hard Disk         ATA        Samsung    SSD 860 EV NTFS
  [ ] 02. D:  Hard Disk         ATA        Samsung    SSD 860 EV NTFS
  ]X[ 03. E:  Removable Disk    USB        Generic-   Compact Fl EMAX-II
  [ ] 04. F:  Removable CDROM   ATAPI      MATSHITA   DVD-RAM UJ EIII/X/ESI
  [ ] 05. H:  Removable Disk    USB        Generic-   xD/SD/M.S. EMAX-II
  [ ] 06. I:  Removable Disk    USB        Generic-   SD/MMC      NO DISK
  [ ] 07. J:  Removable Disk    USB        Generic-   MS/MS-PRO   NO DISK
  [ ] 08. K:  Removable Disk    USB        Generic-   xD-Picture  NO DISK
  [ ] 09. L:  Removable Disk    USB        Generic-   MicroSD/M2  NO DISK
  [ ] 10. M:  Removable Disk    USB        JetFlash   TS4GJFV30   FAT32

-------------------------------------------------------------------------------
[SPACE|01-10]Select __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
___________________ [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_
-------------------------------------------------------------------------------
                          Please enter your choice:
```

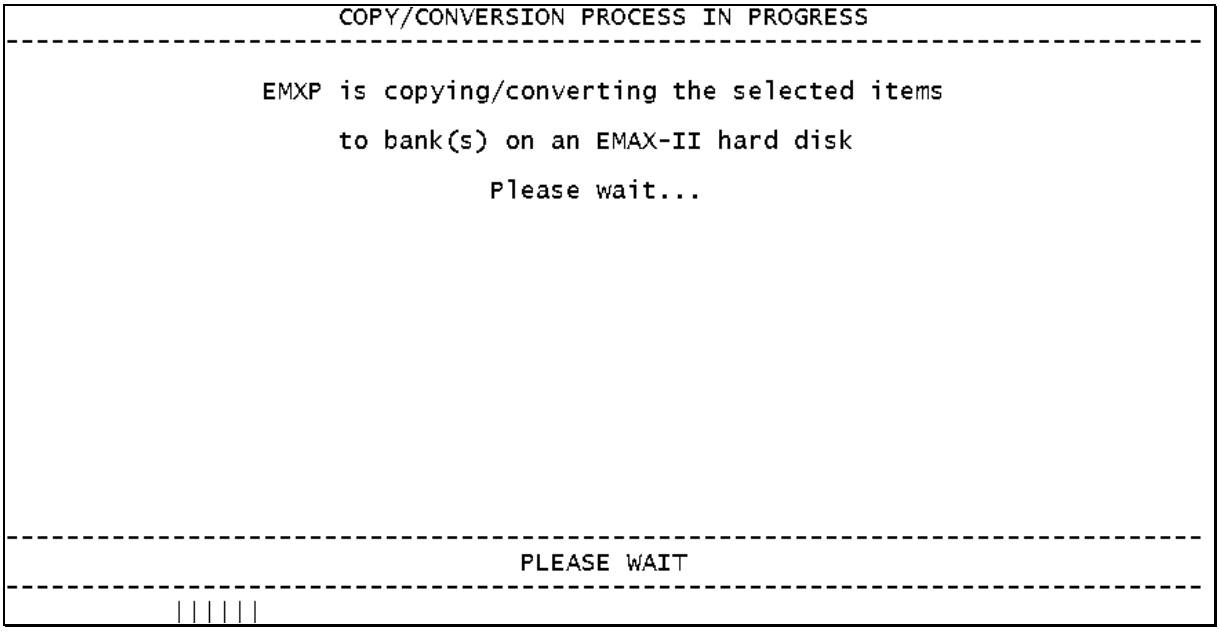
14) The disk is drive E is indeed empty. Let's leave the screen by pressing ESCAPE.

```
                    EMAX-II HARD DISK DETAILS - DRIVE E
-------------------------------------------------------------------------------

  Hard disk in drive:      E
  Disk Size:               962 MB

  Sampler Type:            EMAX-II
  Formatted Size:          962 MB
  Used Space:              1 %
  Available Space:         99 %

  Number of Banks in Use:  0
  Available No of Banks:   100

  Operating System:        Emax II rev 2.14

-------------------------------------------------------------------------------
       [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                          Please enter your choice:
```

15) In de drive overview screen, we select item 3 and press ENTER to select drive E as the target EMAX-II hard disk.



16) EMXP starts converting all banks now. This will take quite a while (5-15 minutes depending on the performance of your computer). The conversion process can not be interrupted. So we have to be patient and we can have a cup of coffee...



17) Since both the source and the target device are considered to be "slow" devices for EMXP (cdrom, CF card), EMXP will explicitly show separate progress bars for reading a bank from the cdrom, and writing the converted bank to the CF card. In between reading and writing the disks, an overall progress bar is displayed while EMXP is using computer power to convert the banks. The picture below shows the separate progress bar for reading the cdrom...

```
PROCESSING ITEM 11/45 - READING EMULATOR-III/X HARD DISK
-------------------------------------------------------------------------------

                EMXP is reading the EMULATOR-III/X hard disk

                        (bank B10 Solo Trombone 4M)

                              Please wait...

-------------------------------------------------------------------------------
                                PLEASE WAIT
-------------------------------------------------------------------------------
          |||||||||||||||||||||||||||||
```

18) ... and the progress bar for writing the CF card is shown in the next picture.

```
PROCESSING ITEM 11/45 - WRITING TO EMAX-II HARD DISK
-------------------------------------------------------------------------------

                EMXP is writing to the EMAX-II hard disk

                                (bank B13)

                              Please wait...

-------------------------------------------------------------------------------
                                PLEASE WAIT
-------------------------------------------------------------------------------
          |||||||||||||||||||||||||||||||||||||||||||||||
```

19) Finally EMXP has successfully converted all Emulator-III banks from the cdrom into EMAX-II banks on a hard disk. A (very long) conversion execution report is displayed at the end of the conversion process. This report has been saved to disk as well; the folder in which the report has been saved, as well as the report's file name, can be found at the end of the report. For each converted bank, the report contains a dedicated subreport which shows how many target banks were created for each source bank and which presets and samples have (or have not) been converted. We can browse through the report by scrolling with the UP and DOWN keys or with the PAGE UP and PAGE DOWN keys or with the HOME and END key. On the first screen EMXP reports that the first bank was invalid and has not been converted.

```
                REPORT: COPY/CONVERSION TO EMAX-II HARD DISK(S)
-------------------------------------------------------------------------------
 45 of the 45 selected banks have been processed
  (not all banks were processed succesfully, due to errors)

 -----------------------------------------------------------------------------
 SUBREPORT 1 of 45:
 -----------------------------------------------------------------------------

 Bank E-mu Banks 1-44 on EIII/X/ESI hard disk:
   disk in drive F
 ...HAS NOT BEEN CONVERTED
   (no target objects have been created)
  ** This conversion process gave an error (errorcode 1729) **
     [Bank is invalid or corrupt. EMXP can not not copy or convert invalid o
     r corrupt banks.]

 -----------------------------------------------------------------------------
 SUBREPORT 2 of 45:
 -----------------------------------------------------------------------------

-------------------------------------------------------------------------------
     [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                         Please enter your choice:
```

20) After scrolling down, we can see the conversion report of the 44 valid banks. We press ESCAPE to leave the report screen.

```
                REPORT: COPY/CONVERSION TO EMAX-II HARD DISK(S)
-------------------------------------------------------------------------------
 -----------------------------------------------------------------------------
 SUBREPORT 2 of 45:
 -----------------------------------------------------------------------------

 Bank B001 Full Arco String on EIII/X/ESI hard disk:
   disk in drive F
 ...HAS BEEN CONVERTED TO...
 Bank B000 Arco Strings on EMAX-II hard disk:
   disk in drive E
 Bank B001 Arco Strings on EMAX-II hard disk:
   disk in drive E
 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
 CONVERSION REPORT:

 EMU-III bank "Full Arco String"
   has been translated to 2 EMAX-II banks.

 - 3 presets have NOT been translated (see end of report).
 - 0 samples have NOT been translated (see end of report).
-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                         Please enter your choice:
```

21) Let's check the contents of the EMAX-II hard disk now. We go back to the main menu by pressing ESCAPE a few times. In the main menu, we select menu function 1.

```
EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
--------------------------------------------------------------------------------

                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences

--------------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
--------------------------------------------------------------------------------
                          Please enter a menu option:
```

22) In the next menu, we select menu function 2 to launch the EMAX-II sampler menu.

```
                              EMU SAMPLER MENU
--------------------------------------------------------------------------------

              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files

--------------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
--------------------------------------------------------------------------------
                          Please enter a menu option:
```

23) We want to check an EMAX-II hard disk, so we select menu function 5.

```
                         EMAX-II SAMPLER MENU
-------------------------------------------------------------------------------

              1.  Manage EMAX-II Bank Files

              2.  Manage EMAX-II EMX Files

              3.  Manage EMAX-II Operating System Files

              4.  Manage EMAX-II Hard Disk Images

              5.  Manage EMAX-II Hard Disks

              6.  Manage EMAX-II Floppy Disk Images

              7.  Manage EMAX-II HxC Floppy Disk Images

              8.  Manage EMAX-I/EMAX-II Floppy Disks

              9.  Receive Samples from EMAX-II via RS422/MIDI

-------------------------------------------------------------------------------
          [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                       Please enter a menu option:
```

24) EMXP launches the Disk Manager now and we select the EMAX-II hard disk drive. From the previous steps we know that drive E is the drive containing the EMAX-II CF card, so we select item 3 and we press shortcut key "B" to get an overview of the banks on the disk in drive E.

```
                    PLEASE SELECT AN EMAX-II HARD DISK DRIVE
-------------------------------------------------------------------------------
                              CURRENT DRIVE = E
-------------------------------------------------------------------------------
  [ ]  01. C:  Hard Disk         ATA        Samsung    SSD 860 EV DISK FOUND
  [ ]  02. D:  Hard Disk         ATA        Samsung    SSD 860 EV DISK FOUND
  ]x[  03. E:  Removable Disk    USB        Generic-   Compact Fl DISK FOUND
  [ ]  04. F:  Removable CDROM   ATAPI      MATSHITA   DVD-RAM UJ DISK FOUND
  [ ]  05. H:  Removable Disk    USB        Generic-   xD/SD/M.S. DISK FOUND
  [ ]  06. I:  Removable Disk    USB        Generic-   SD/MMC     NO DISK
  [ ]  07. J:  Removable Disk    USB        Generic-   MS/MS-PRO  NO DISK
  [ ]  08. K:  Removable Disk    USB        Generic-   xD-Picture NO DISK
  [ ]  09. L:  Removable Disk    USB        Generic-   MicroSD/M2 NO DISK
  [ ]  10. M:  Removable Disk    USB        JetFlash   TS4GJFV30  DISK FOUND

-------------------------------------------------------------------------------
[SPACE|01-10]Select ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go___
[+]More [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_ [B]Banks___
-------------------------------------------------------------------------------
                          Please enter your choice:
```

1

2

25) From the bank overview screen we can conclude that the Emulator-III banks have indeed been converted and copied to the EMAX-II hard disk. Some of the banks didn't fit in one EMAX-II bank: for these banks, multiple EMAX-II banks have been generated and the presets have been spread across these generated banks. We press the DOWN or PAGE DOWN key to scroll to the bottom of the bank overview.

```
                        EMAX-II HARD DISK BANK OVERVIEW
-------------------------------------------------------------------------------
  ] [  01. B00 Arco Strings       EMAX-II   #Pres: 27  #Samp: 28  3739 Kb
  [ ]  02. B01 Arco Strings       EMAX-II   #Pres: 5   #Samp: 25  3650 Kb
  [ ]  03. B02 Tremolondi V       EMAX-II   #Pres: 18  #Samp: 36  3867 Kb
  [ ]  04. B03 Tremolondi V       EMAX-II   #Pres: 11  #Samp: 72  7707 Kb
  [ ]  05. B04 Tremolondi&M       EMAX-II   #Pres: 4   #Samp: 36  3867 Kb
  [ ]  06. B05 Basic Violin       EMAX-II   #Pres: 24  #Samp: 106 7821 Kb
  [ ]  07. B06 Sequence Vio       EMAX-II   #Pres: 1   #Samp: 22  2121 Kb
  [ ]  08. B07 Full Strings       EMAX-II   #Pres: 13  #Samp: 28  3015 Kb
  [ ]  09. B08 Basic Pad          EMAX-II   #Pres: 19  #Samp: 80  7497 Kb
  [ ]  10. B09 Combination        EMAX-II   #Pres: 2   #Samp: 34  3225 Kb
  [ ]  11. B10 Trombone 1         EMAX-II   #Pres: 37  #Samp: 43  3059 Kb
  [ ]  12. B11 Section Sust       EMAX-II   #Pres: 28  #Samp: 40  3198 Kb
  [ ]  13. B12 Section Sust       EMAX-II   #Pres: 18  #Samp: 75  7779 Kb
  [ ]  14. B13 Short Falls        EMAX-II   #Pres: 10  #Samp: 88  6115 Kb
  [ ]  15. B14 Low Trombone       EMAX-II   #Pres: 19  #Samp: 94  7366 Kb
  [ ]  16. B15 Shortfall XS       EMAX-II   #Pres: 9   #Samp: 83  7373 Kb
  [ ]  17. B16 Soft Trumpet       EMAX-II   #Pres: 36  #Samp: 41  2912 Kb
  [ ]  18. B17 Soft Trumpet       EMAX-II   #Pres: 23  #Samp: 122 7574 Kb
-------------------------------------------------------------------------------
[SPACE|01-68]Select [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ __________
_________________ __________ __________ __________ __________ __________
-------------------------------------------------------------------------------
                          Please enter your choice:
```

26) There are 68 banks on the EMAX-II hard disk. In the conversion execution report we can find details about which of the 44 valid original banks required 2 or more EMAX-II banks in order to be converted successfully. We leave the bank overview screen by pressing ESCAPE.

```
                        EMAX-II HARD DISK BANK OVERVIEW
-------------------------------------------------------------------------------
  [ ]  51. B50 Evan's Finge       EMAX-II   #Pres: 39  #Samp: 24  1153 Kb
  [ ]  52. B51 Plain Old Gu       EMAX-II   #Pres: 11  #Samp: 40  6095 Kb
  [ ]  53. B52 Denver Jets        EMAX-II   #Pres: 8   #Samp: 8   3961 Kb
  [ ]  54. B53 Stringz Sect       EMAX-II   #Pres: 52  #Samp: 21  2633 Kb
  [ ]  55. B54 2RawSynthCom       EMAX-II   #Pres: 16  #Samp: 17  4194 Kb
  [ ]  56. B55 Zarathustrin       EMAX-II   #Pres: 48  #Samp: 32  3791 Kb
  [ ]  57. B56 P-5 Sync Hig       EMAX-II   #Pres: 31  #Samp: 19  1982 Kb
  [ ]  58. B57 Digi-Synth B       EMAX-II   #Pres: 24  #Samp: 39  7567 Kb
  [ ]  59. B58 Synth Piano        EMAX-II   #Pres: 13  #Samp: 21  3180 Kb
  [ ]  60. B59 9ft Grand 88       EMAX-II   #Pres: 9   #Samp: 30  3669 Kb
  [ ]  61. B60 9ft Low (Raw       EMAX-II   #Pres: 10  #Samp: 30  3669 Kb
  [ ]  62. B61 Pedal Tutti        EMAX-II   #Pres: 22  #Samp: 44  7715 Kb
  [ ]  63. B62 Fp BezOrg 1        EMAX-II   #Pres: 9   #Samp: 10  1899 Kb
  [ ]  64. B63 Grand Piano        EMAX-II   #Pres: 25  #Samp: 37  4146 Kb
  [ ]  65. B64 Basic Flute        EMAX-II   #Pres: 28  #Samp: 45  3333 Kb
  [ ]  66. B65 Ema's Confus       EMAX-II   #Pres: 1   #Samp: 21  1679 Kb
  [ ]  67. B66 Balzy Sax          EMAX-II   #Pres: 27  #Samp: 32  3718 Kb
  ] [  68. B67 Breathy Sax        EMAX-II   #Pres: 9   #Samp: 33  3991 Kb
-------------------------------------------------------------------------------
[SPACE|01-68]Select [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ __________
_________________ __________ __________ __________ __________ __________
-------------------------------------------------------------------------------
                          Please enter your choice:
```

27) This is the end of guided tour #8. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #9: CONVERTING ALL SAMPLES FROM A SET OF EMULATOR-III BANKS TO WAV FILES

In this guided tour, we will convert *all* samples from two Emulator-III banks on an Emulator-III cdrom to WAV files.

1) After having started EMXP the main menu will appear. Since we want to convert samples from an EMU Emulator-III cdrom, we select menu function 1 by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------
                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences
-----------------------------------------------------------------------------
            [1]...[6]: menu option                ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

2) The Emu Sampler menu will appear. Since we want to convert samples from an Emulator-III cdrom, we select menu function 5 by pressing "5" on the keyboard of the computer.

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------

               1.  Manage EMU EMAX-I Files and Disks
               2.  Manage EMU EMAX-II Files and Disks
               3.  Manage EMU EMULATOR-I Files
               4.  Manage EMU EMULATOR-II Files and Disks
               5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
               6.  Manage EMU SP-12 Files

-----------------------------------------------------------------------------
            [1]...[6]: menu option                ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

3) In the Emulator-III/X/ESI menu, we select menu function 5 to access the Emulator-III cdrom (which is a type of hard disk)

```
                        EMULATOR-III/X/ESI SAMPLER MENU
-------------------------------------------------------------------------------

          1.  Manage EMULATOR-III Bank Files

          2.  Manage EMULATOR-IIIX Bank Files

          3.  Manage ESI-V3 Bank Files

          4.  Manage EMULATOR-III/X/ESI Hard Disk Images

          5.  Manage EMULATOR-III/X/ESI Hard Disks

          6.  Manage EMULATOR-III Operating System Files and Disks

          7.  Manage EMULATOR-IIIX Operating System Files and Disks



-------------------------------------------------------------------------------
            [1]...[7]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

4) The Disk Manager is launched and all drives connected to the computer are displayed. To make sure we will select the right drive, we request EMXP to scan the drives in order to gather the disk type of the disks in each drive. We press the "S" key on the keyboard , which is a "short cut key" for instructing EMXP to scan the drives. *Note: all menu functions can be accessed directly via these shortcut keys. We can press "+" to scroll through all available shortcut keys at the bottom line of the screen. In addition we can also press "R" to refresh the drive overview (e.g. after we plugged another hard disk drive into an USB port). It's also possible to scan for SCSI2SD partitions on a drive by pressing "C", but that feature is explained in "GUIDED TOUR #5: COPYING AN EMAX-II BANK FROM ONE SCSI2SD PARTITION TO ANOTHER SCSI2SD PARTITION".*

```
              PLEASE SELECT AN EMULATOR-III/X/ESI HARD DISK DRIVE
-------------------------------------------------------------------------------
                                CURRENT DRIVE = E
-------------------------------------------------------------------------------
  ] [  1. C:  Hard Disk         ATA        Samsung    SSD 860 EV DISK FOUND
  [ ]  2. D:  Hard Disk         ATA        Samsung    SSD 860 EV DISK FOUND
  [ ]  3. F:  Removable CDROM   ATAPI      MATSHITA   DVD-RAM UJ DISK FOUND









-------------------------------------------------------------------------------
[SPACE|1-3]Select__                          [U/D]Scroll [ESC]Back__ ___________
[R]Refresh________ [S]ScanType [C]SCSI2SD_ [G]SDConfig ___________ ___________
-------------------------------------------------------------------------------
                          Please enter your choice:
```

5) After the drive-scan is completed, the rightmost column of the drive overview contains the type (= file system) of the disk in each drive. From the overview we derive that drive F contains the Emulator-III cdrom. We select this drive by selecting item 3. This can be done either by moving the cursor ("] [") with the UP and DOWN keys to item 3 and pressing the SPACE bar, or simply by entering "3" on the keyboard. We press ENTER to launch the hard disk menu. *It's also possible to jump immediately to the bank overview of the selected disk by pressing the shortcut key "B".*

```
                    PLEASE SELECT AN EMULATOR-III/X/ESI HARD DISK DRIVE
--------------------------------------------------------------------------------
                                CURRENT DRIVE = E
--------------------------------------------------------------------------------
  [ ]  1. C:  Hard Disk         ATA        Samsung    SSD 860 EV NTFS
  [ ]  2. D:  Hard Disk         ATA        Samsung    SSD 860 EV NTFS
  ]X[  3. F:  Removable CDROM   ATAPI      MATSHITA   DVD-RAM UJ EIII/X/ESI

--------------------------------------------------------------------------------
[SPACE|1-3]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go___
[+]More [R]Refresh_ [S]ScanType [C]SCSI2SD_ [G]SDConfig [D]Details_ [B]AllBanks
--------------------------------------------------------------------------------
                           Please enter your choice:
```

6) In the hard disk menu, we select menu function 1 to get an overview of all banks on the cdrom. *As mentioned in step 5, there's a faster way to get an overview of the banks on a hard disk or cdrom. This can be achieved by using the shortcut key "B" in the drive overview screen.*

```
                        EMULATOR-III/X/ESI HARD DISK MENU
--------------------------------------------------------------------------------

    1.  Manage all Banks on EMULATOR-III/X/ESI Hard Disk

    2.  Manage EMULATOR-III Banks only on Hard Disk

    3.  Manage EMULATOR-IIIX Banks only on Hard Disk

    4.  Manage ESI-V3 Banks only on Hard Disk

    5.  Manage Operating System(s) on EMULATOR-III/X/ESI Hard Disk

    6.  Format EMULATOR-III/X/ESI Hard Disk

    7.  Copy EIII/X/ESI Hard Disk to EIII/X/ESI Hard Disk Image (Backup)

    8.  Copy EIII/X/ESI Hard Disk to other EIII/X/ESI Hard Disk (Clone)

    9.  Show Details of EMULATOR-III/X/ESI Hard Disk

--------------------------------------------------------------------------------
            [1]...[9]: menu option                 ESC: Go back
--------------------------------------------------------------------------------
                           Please enter a menu option:
```

7) We will convert all samples from two Emulator-III banks: "WurlitzerE.Piano" and "DX7 Rhodes", so we will select items 12 and 15. To do this we can either move the cursor ("] [") with the UP and DOWN keys to items 12 and 15 and press the SPACE bar, or simply enter "12" and "15" on the keyboard. We press "W" to launch the sample-to-WAV conversion process. *As an alternative we could have pressed ENTER after which the hard disk bank menu would have appeared.*

```
                    EMULATOR-III/X/ESI HARD DISK BANK OVERVIEW
-------------------------------------------------------------------------------
  [ ]  01. B00 VOL 7/EmuClassic   EMU-III   #Pres: 1   #Samp: 0   1 Kb
  [ ]  02. B01 Texture Jam    X   EMU-IIIX  #Pres: 29  #Samp: 74  24392 Kb
  [ ]  03. B02 Haus Musika    X   EMU-IIIX  #Pres: 13  #Samp: 37  20229 Kb
  [ ]  04. B03 Earth Tones    X   EMU-IIIX  #Pres: 9   #Samp: 22  10132 Kb
  [ ]  05. B04 Proteus 1/Pop  X   EMU-IIIX  #Pres: 154 #Samp: 197 5615 Kb
  [ ]  06. B05 Proteus 2/Orch+X   EMU-IIIX  #Pres: 108 #Samp: 322 32175 Kb
  [ ]  07. B06 Proteus 3/WorldX   EMU-IIIX  #Pres: 149 #Samp: 135 4064 Kb
  [ ]  08. B07 Procussion     X   EMU-IIIX  #Pres: 188 #Samp: 191 4375 Kb
  [ ]  09. B08 Kawaii 9'Grand X   EMU-IIIX  #Pres: 9   #Samp: 42  23459 Kb
  [ ]  10. B09 CP-70 Med/Hard X   EMU-IIIX  #Pres: 17  #Samp: 42  14880 Kb
  [ ]  11. B10 CP-70 Soft     X   EMU-IIIX  #Pres: 10  #Samp: 21  7291 Kb
  [X]  12. B11 WurlitzerE.Piano   EMU-III   #Pres: 16  #Samp: 40  7690 Kb
  [ ]  13. B12 Dyno Rhodes        EMU-III   #Pres: 17  #Samp: 40  7846 Kb
  [ ]  14. B13 Dyno Rhodes Soft   EMU-III   #Pres: 16  #Samp: 39  6967 Kb
  ]X[  15. B14 DX7 Rhodes         EMU-III   #Pres: 22  #Samp: 41  7808 Kb
  [ ]  16. B15 B3                 EMU-III   #Pres: 39  #Samp: 34  2506 Kb
  [ ]  17. B16 Vox Haunt      X   EMU-IIIX  #Pres: 18  #Samp: 14  1595 Kb
  [ ]  18. B17 ChamberlinViolns   EMU-III   #Pres: 13  #Samp: 18  5178 Kb
-------------------------------------------------------------------------------
[SPACE|01-20]Select [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More ___________ ___________ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
-------------------------------------------------------------------------------
                          Please enter your choice:
```

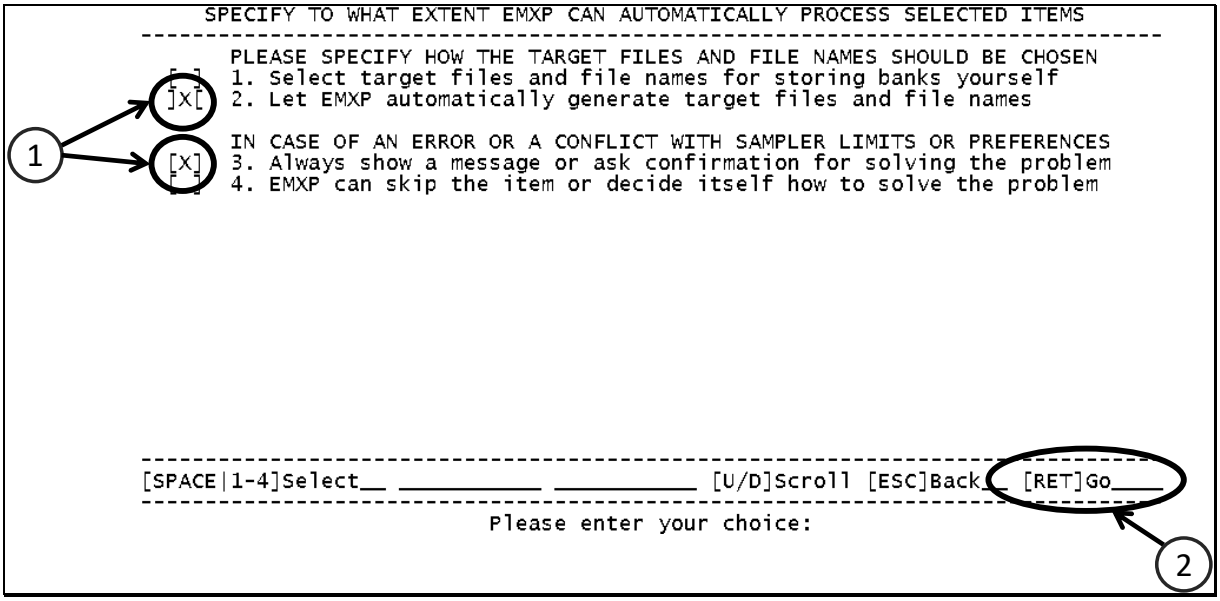
8) EMXP now asks whether the conversion of the samples should be done in an automated (batch) mode with minimal user intervention, or rather in a fully controlled item-per-item manual mode. In our example we want to have full control of the conversion process so we select the second menu item and press ENTER.

```
                DEFINE WHETHER EMXP SHOULD EXTRACT SAMPLES AUTOMATICALLY OR NOT
-------------------------------------------------------------------------------
  [ ]  1. Yes, extract samples as automated as possible                (BATCH)
  ]X[  2. No, user should have maximum control                        (MANUAL)
  [ ]  3. Use custom automation level                                 (MANUAL)

            BATCH: All selected samples will be extracted
              automatically using the extraction preferences.
              You only have to specify the folder/disk where the
              the extracted samples should be saved.
            MANUAL: You can define all extraction parameters and
              you can specify the destination (e.g. target WAV names) for each
              extracted sample. Define which parts of
              the extraction process should be manual or automated.
            SEMI-MANUAL: The current extraction settings can be a
              mix of manual and automated processing, as has been configured
              previously in MANUAL or SEMI-MANUAL mode.

  [ ]  4. Don't show this screen anymore
-------------------------------------------------------------------------------
[SPACE|1-4]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------------
                          Please enter your choice:
```

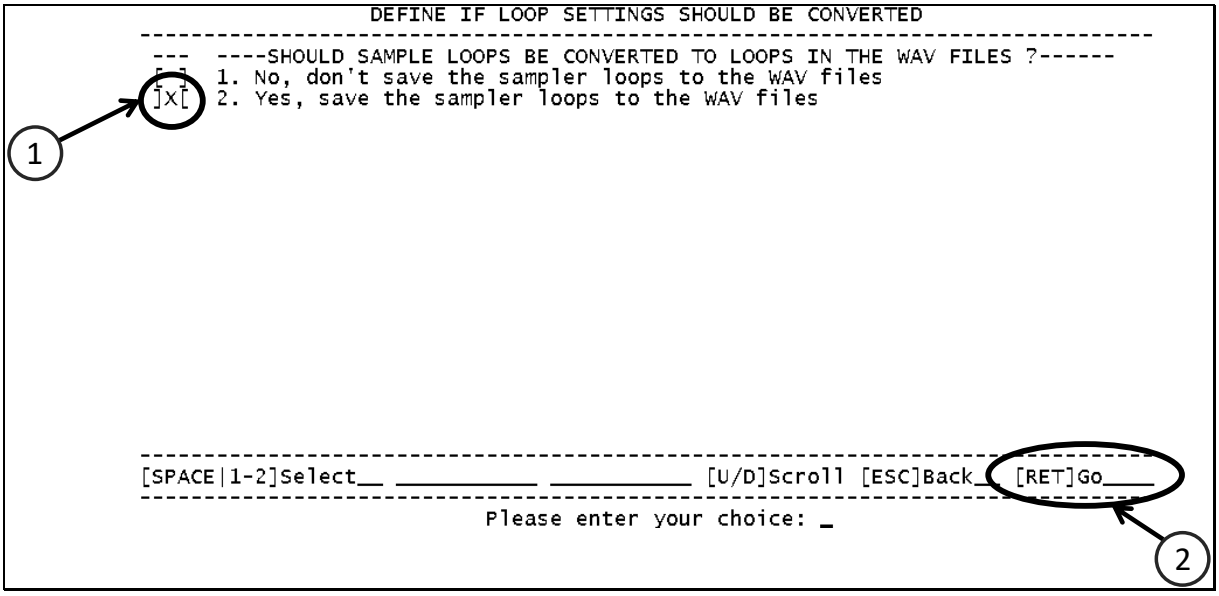
9) We have to decide now whether EMXP can take decisions itself or whether we want to have manual control regarding:

- the folder and file names of the WAV files that will be created from the samples
- errors and exceptions which may occur during the conversion process.

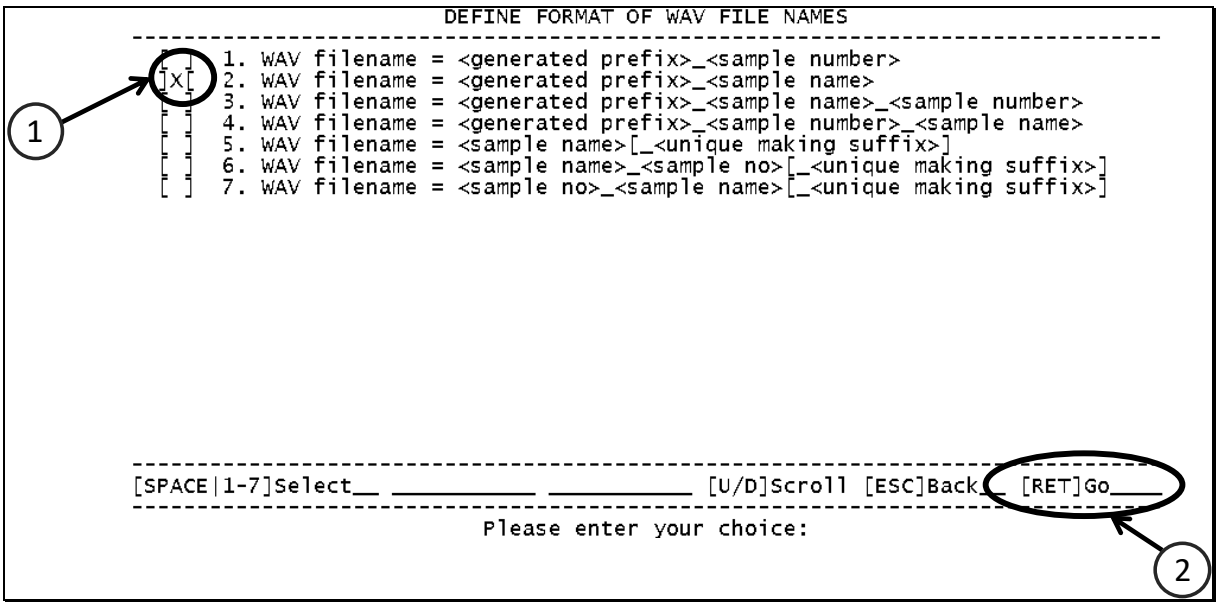
We don't want to have to enter a file name prefix for each bank from which we are converting samples, so we select item 2 instead of 1. This means that EMXP will automatically assign file names. However if an error or exception would occur during the conversion process, we would like to be informed immediately, so we select item 3. We press ENTER to go to the next screen.



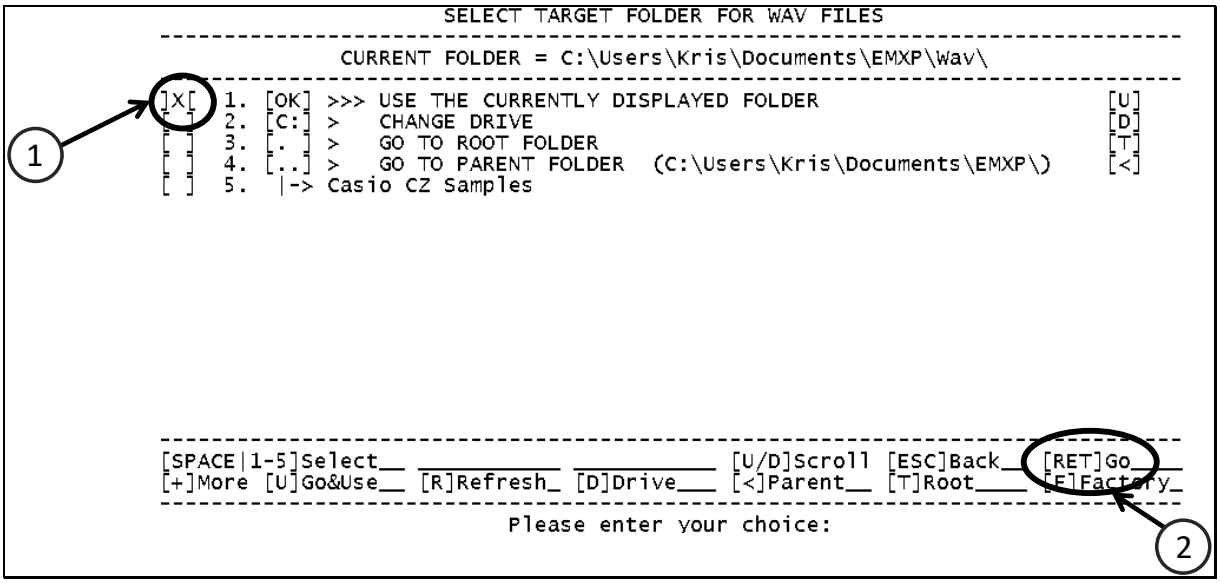
10) The samples in the selected Emulator-III banks may contain loops. EMXP can convert these loops and save them as loops in the resulting WAV files. This is fine, so we select item 2 and press ENTER.



11) When converting samples from Emulator-III/IIIX/ESI-v3 banks or from Akai S1000 files, we can define a file name format which should be used by EMXP for generating the WAV files. We select the format consisting of a prefix and the name of the sample in the Emulator-III bank. The prefix will automatically be assigned by EMXP (see step 9) and will be based on the bank name. We select item 2 and press ENTER.



12) EMXP now launches the File Manager in which we have to select the folder in which EMXP should save the generated WAV files. In our example the default "\Wav" folder is fine, so we accept this folder by selecting item 1 labelled "[OK] >>> USE THE CURRENTLY DISPLAYED FOLDER" and we press ENTER. *Simply pressing ENTER without selecting any item (not even item 1) works fine as well.*



13) The sample conversion process is started now. This process can take a while because the source device is a hard disk/cdrom which is a rather slow device for EMXP. Please note that the conversion process can not be interrupted - we have to wait till the process is completed.

```
                    SAMPLE CONVERSION PROCESS IN PROGRESS
-------------------------------------------------------------------------------

              EMXP is converting all samples from the selected

                  EMULATOR-III hard disk banks to WAV files

                                Please wait...









-------------------------------------------------------------------------------
                                 PLEASE WAIT
-------------------------------------------------------------------------------
          |||||||||||||||||||||||||||||||||||||||
```

14) After the sample conversion process is completed, EMXP will display a sample conversion execution report. This report explains which samples from which bank/file have been extracted to which WAV files. The report is saved to disk as well. The location and file name of the report is mentioned at the end of the report. The report contains a sample conversion subreport for each bank from which samples have been converted. We can browse the report by pressing the UP and DOWN keys or PAGE UP and PAGE DOWN keys and HOME and END keys.

```
                  REPORT: SAMPLE CONVERSION TO WAV FILE(S)
-------------------------------------------------------------------------------
 81 of the 81 selected samples were processed
 These samples were extracted from up to 2 of the 2 selected banks

 -----------------------------------------------------------------------------
 SUBREPORT 1 of 2:
 -----------------------------------------------------------------------------

 40 samples of Bank B011 WurlitzerE.Piano on EIII/X/ESI hard disk:
   disk in drive F
 ...HAVE BEEN CONVERTED TO...
 40 WAV files (file names starting with WurlitzerE.Piano)
     in C:\Users\Kris\Documents\EMXP\Wav\
 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
 CONVERSION REPORT:

 The selected samples from EMULATOR-III bank WurlitzerE.Piano were processed:
   - 40 samples were successfully converted into WAV files

 Samples that have been successfully converted to WAV files:
-------------------------------------------------------------------------------
    [UP/DOWN]        [PGUP/PGDN]        [HOME/END]        [ESC]
-------------------------------------------------------------------------------
              Wrong choice! Please enter your choice again:
```

15) After scrolling down a few lines, we can see the list of WAV files that have been created for the samples of the first bank ("WurlitzerE.Piano"). The (*) at the end of each WAV file indicates that the sample's loop has been saved in the WAV file as well. We leave the report by pressing ESCAPE.

```
                    REPORT: SAMPLE CONVERSION TO WAV FILE(S)
-------------------------------------------------------------------------------
  CONVERSION REPORT:

  The selected samples from EMULATOR-III bank WurlitzerE.Piano were processed:
    - 40 samples were successfully converted into WAV files

  Samples that have been successfully converted to WAV files:
    S01 Wurlitzer Hd A1  --> WurlitzerE.Piano_Wurlitzer Hd A1.WAV (*)
    S02 Wurlitzer Hd C2  --> WurlitzerE.Piano_Wurlitzer Hd C2.WAV (*)
    S03 Wurlitzer Hd D#2 --> WurlitzerE.Piano_Wurlitzer Hd D#2.WAV (*)
    S04 Wurlitzer Hd F#2 --> WurlitzerE.Piano_Wurlitzer Hd F#2.WAV (*)
    S05 Wurlitzer Hd A2  --> WurlitzerE.Piano_Wurlitzer Hd A2.WAV (*)
    S06 Wurlitzer Hd C3  --> WurlitzerE.Piano_Wurlitzer Hd C3.WAV (*)
    S07 Wurlitzer Hd D#3 --> WurlitzerE.Piano_Wurlitzer Hd D#3.WAV (*)
    S08 Wurlitzer Hd F#3 --> WurlitzerE.Piano_Wurlitzer Hd F#3.WAV (*)
    S09 Wurlitzer Hd A3  --> WurlitzerE.Piano_Wurlitzer Hd A3.WAV (*)
    S10 Wurlitzer Hd C4  --> WurlitzerE.Piano_Wurlitzer Hd C4.WAV (*)
    S11 Wurlitzer Hd D#4 --> WurlitzerE.Piano_Wurlitzer Hd D#4.WAV (*)
    S12 Wurlitzer Hd F#4 --> WurlitzerE.Piano_Wurlitzer Hd F#4.WAV (*)
    S13 Wurlitzer Hd A4  --> WurlitzerE.Piano_Wurlitzer Hd A4.WAV (*)
-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                          Please enter your choice:
```

16) This is the end of guided tour #9. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #10: CONVERTING A SINGLE SAMPLE FROM AN EMULATOR-II BANK TO A WAV FILE

In this guided tour, we will select a sample from an Emulator-II bank file by exploring the bank and selecting a voice in one of the key areas of one of the presets. This sample will be converted to a WAV file.

1) After having started EMXP the main menu will appear. Since we want to convert a samples from an EMU Emulator-II bank file, we select menu function 1 by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------
                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences
-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

2) The Emu Sampler menu will appear. Since we want to convert a samples from an Emulator-II bank file, we select menu function 4 by pressing "4" on the keyboard of the computer.

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------
               1.  Manage EMU EMAX-I Files and Disks
               2.  Manage EMU EMAX-II Files and Disks
               3.  Manage EMU EMULATOR-I Files
               4.  Manage EMU EMULATOR-II Files and Disks
               5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
               6.  Manage EMU SP-12 Files
-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

3) In the Emulator-II menu, we select menu function 1 to get an overview of all Emulator-II bank files in the current folder.

```
                          EMULATOR-II SAMPLER MENU
-----------------------------------------------------------------------------

            1.  Manage EMULATOR-II Bank Files

            2.  Manage EMULATOR-II Floppy Disk Images

            3.  Manage EMULATOR-II HxC Floppy Disk Images

            4.  Manage EMULATOR-II Hard Disk Images (e.g. DREM)

            5.  Manage EMULATOR-II Hard Disks

            6.  Manage EMULATOR-II Operating System Files

            7.  Receive Banks from EMULATOR-II via RS422

            8.  Receive Samples from EMULATOR-II via RS422


-----------------------------------------------------------------------------
          [1]...[8]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                        Please enter a menu option:
```

4) EMXP displays an overview of all Emulator-II bank files in the current folder. In our example the current folder is the folder we indeed want to use, but we can always change the folder by selecting the first item labelled "-- CHANGE FOLDER --". We will convert a sample from bank file "05 Marcato Strings", so we select item 3 either by moving the cursor ("] [") with the UP and DOWN keys to item 3 and pressing the SPACE bar, or simply by entering "03" on the keyboard (or "3" followed by ENTER). Since we want to explore the presets of this bank file, we use a "short cut key" to immediately get an overview of the bank's presets. This is achieved by pressing "P" on the keyboard.

```
                              EMULATOR-II BANK FILE OVERVIEW
          -----------------------------------------------------------------------------
          CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emulator II\EmuII Factory\
          -----------------------------------------------------------------------------
            [ ]  01. -- CHANGE FOLDER --
            [ ]  02. 04 Grand Piano                Piano #3   #Pres: 15  #Samp: 6
            ]X[  03. 05 Marcato Strings            Marcato St #Pres: 14  #Samp: 10
            [ ]  04. 06 Bass, Synth, Drums         Bass Synth #Pres: 11  #Samp: 22
            [ ]  05. 07 Percussion #1              Elec Drum  #Pres: 14  #Samp: 34
            [ ]  06. 08 Cello & Violin             Cello Vln  #Pres: 7   #Samp: 26
            [ ]  07. 09 Orchestra Tune             Orch Tune  #Pres: 4   #Samp: 1
            [ ]  08. 10 Stacked Strings            Arco Strgs #Pres: 12  #Samp: 6
            [ ]  09. 11 Acoustic Guitar            Acou Guita #Pres: 5   #Samp: 6
            [ ]  10. 12 Voices                     Voices #1  #Pres: 12  #Samp: 11
            [ ]  11. 13 Digital Synth              Flute #1   #Pres: 27  #Samp: 16
            [ ]  12. 14 Gong, Timpani, Voices      Gong Tymp  #Pres: 1   #Samp: 4
            [ ]  13. 15 Armaggedon                 Armagedon  #Pres: 1   #Samp: 4
            [ ]  14. 16 Basoon Flute               LUTE       #Pres: 21  #Samp: 8
            [ ]  15. 17 Kalimba & Shaku-Hachi      Kalimba #1 #Pres: 2   #Samp: 6
            [ ]  16. 18 Grand Piano #2             NULL PRESE #Pres: 1   #Samp: 0
          -----------------------------------------------------------------------------
          [SPACE|01-04]Select [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
          [+]More  [P]Presets_ [S]Samples_ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
          -----------------------------------------------------------------------------
                                   Please enter your choice:
```

1

2

5) In the preset overview, we select the preset that we want to further explore. In our example this is preset "P05 Chorus Strg", so we select item 5. Since we want to explore the key areas of this preset, we use a "short cut key" to immediately get an overview of the preset's key areas. This is achieved by pressing "K" on the keyboard.

```
                          EMULATOR-II PRESET OVERVIEW
--------------------------------------------------------------------------------
  [ ]  01. P01  Marcato Strg     #Voice:7   Arpeg off  C1->C6     MIDI:Omni
  [ ]  02. P02  Slow Strgs 1     #Voice:7   Arpeg off  C1->C6     MIDI:Omni
  [ ]  03. P03  Slow Strgs 2     #Voice:7   Arpeg off  C1->C6     MIDI:Omni
  [ ]  04. P04  Arpeg Strg 1     #Voice:7   Arpeg on   C1->C6     MIDI:Omni
  ]X[  05. P05  Chorus Strg      #Voice:14  Arpeg off  C1->C6     MIDI:Omni
  [ ]  06. P06  Synth Strg 1     #Voice:7   Arpeg off  C1->C6     MIDI:Omni
  [ ]  07. P07  Synth Strg 2     #Voice:7   Arpeg off  C1->C6     MIDI:Omni
  [ ]  08. P08  Synth Strg 3     #Voice:7   Arpeg off  C1->C6     MIDI:Omni
  [ ]  09. P09  Synth Strg 4     #Voice:7   Arpeg off  C1->C6     MIDI:Omni
  [ ]  10. P10  Arpeg Strg 2     #Voice:7   Arpeg on   C1->C6     MIDI:Omni
  [ ]  11. P11  High Strg #1     #Voice:7   Arpeg off  C1->C6     MIDI:Omni
  [ ]  12. P12  High Strg #2     #Voice:7   Arpeg off  C1->C6     MIDI:Omni
  [ ]  13. P13  High Strg #3     #Voice:7   Arpeg off  C1->C6     MIDI:Omni
  [ ]  14. P14  ChorusStrg 2     #Voice:14  Arpeg off  C1->C6     MIDI:Omni

--------------------------------------------------------------------------------
[SPACE|01-14]Select __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
___________________ [D]Details_ [V]Voices__ [K]KeyAreas___________ ___________
--------------------------------------------------------------------------------
                          Please enter your choice:
```

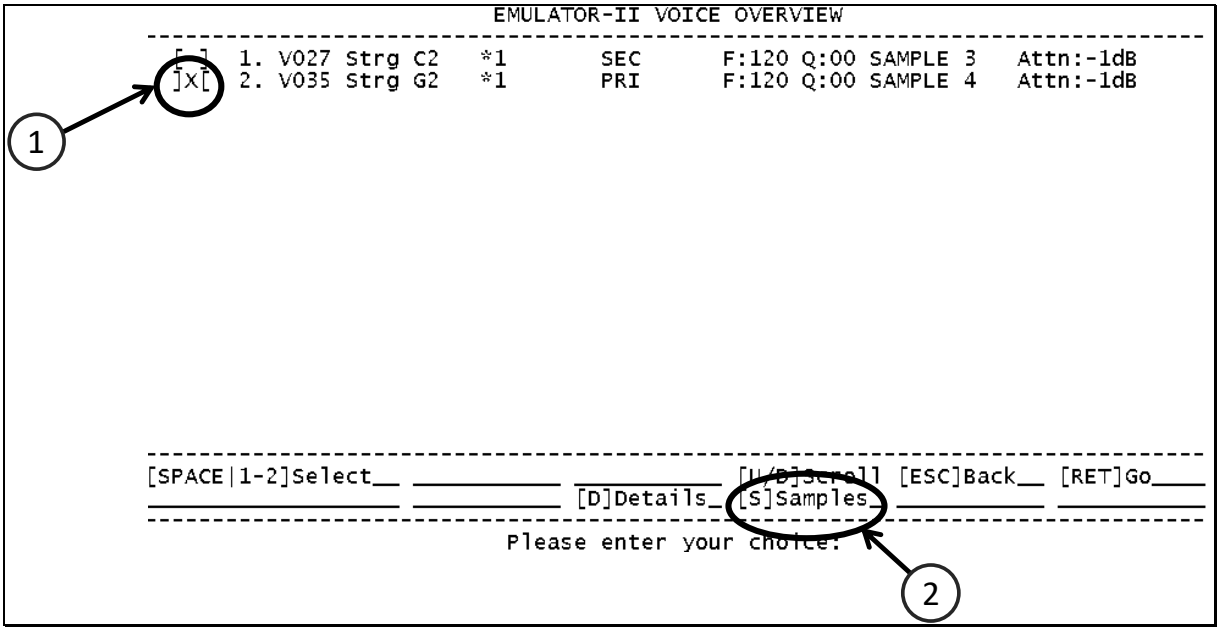
1 2

6) In the key area overview, we select the key area that we want to further explore. In our example this is the key area between keys E3 and E3 (actually this is a single key), so we select item 6. Since we want to explore the voices of this key area, we use a "short cut key" to immediately get an overview of the key area's voices. This is achieved by pressing "V" on the keyboard.

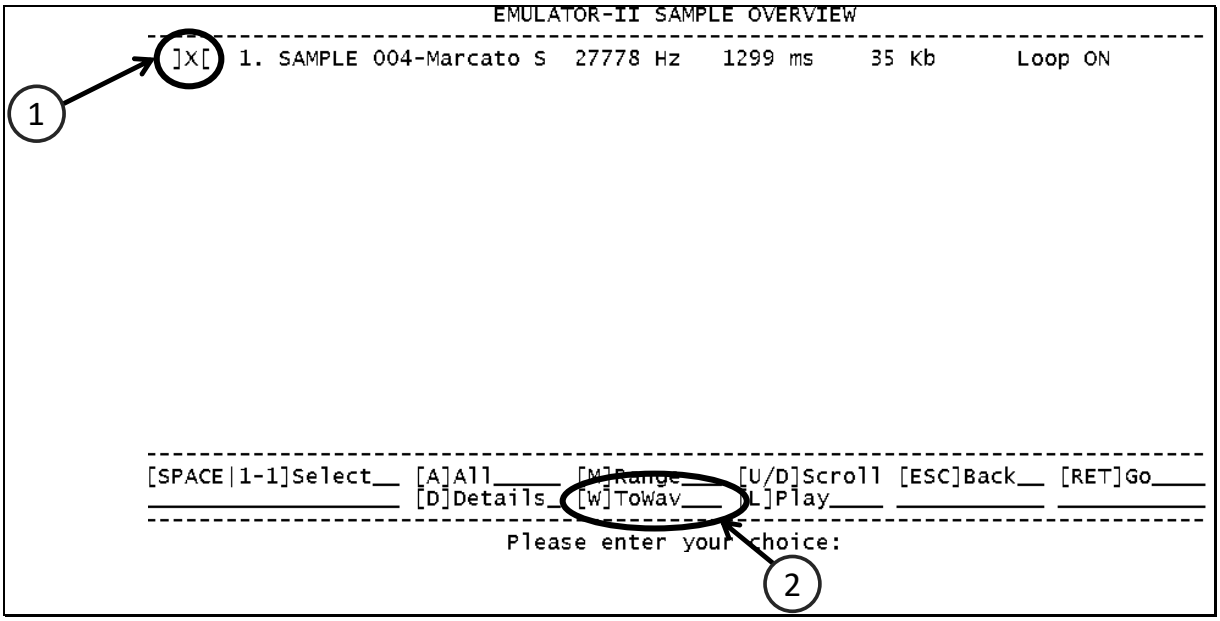
```
                          EMULATOR-II KEY AREA OVERVIEW
--------------------------------------------------------------------------------
  [ ]  01. KEY AREA 001-Chorus   C1->A#1    PRI: V032  >SEC: V025 XFade OFF
  [ ]  02. KEY AREA 002-Chorus   B1->B1     PRI: V033  >SEC: V025 XFade OFF
  [ ]  03. KEY AREA 003-Chorus   C2->G2     PRI: V033  >SEC: V026 XFade OFF
  [ ]  04. KEY AREA 004-Chorus   G#2->G#2   PRI: V034  >SEC: V026 XFade OFF
  [ ]  05. KEY AREA 005-Chorus   A2->D#3    PRI: V034  >SEC: V027 XFade OFF
  ]X[  06. KEY AREA 006-Chorus   E3->E3     PRI: V035  >SEC: V027 XFade OFF
  [ ]  07. KEY AREA 007-Chorus   F3->G#3    PRI: V035  >SEC: V028 XFade OFF
  [ ]  08. KEY AREA 008-Chorus   A3->A3     PRI: V036  >SEC: V028 XFade OFF
  [ ]  09. KEY AREA 009-Chorus   A#3->D4    PRI: V036  >SEC: V029 XFade OFF
  [ ]  10. KEY AREA 010-Chorus   D#4->D#4   PRI: V037  >SEC: V029 XFade OFF
  [ ]  11. KEY AREA 011-Chorus   E4->B4     PRI: V037  >SEC: V030 XFade OFF
  [ ]  12. KEY AREA 012-Chorus   C5->C5     PRI: V038  >SEC: V030 XFade OFF
  [ ]  13. KEY AREA 013-Chorus   C#5->C6    PRI: V038  >SEC: V031 XFade OFF

--------------------------------------------------------------------------------
[SPACE|01-13]Select __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
___________________ __________ [D]Details_ [V]Voices__ ___________ ___________
--------------------------------------------------------------------------------
                          Please enter your choice:
```

1 2

7) In the voice overview, we select the voice that we want to further explore. In our example this is the PRImary voice labelled "V035 Strg G2 *1", so we select item 2. Since we want to explore the samples of this voice, we use a "short cut key" to immediately get an overview of the voice's samples. This is achieved by pressing "S" on the keyboard.



8) The sample overview contains only one sample: that's perfectly normal because an Emulator-II voice can only have one sample assigned to it. We select this sample by selecting item 1 and we press the short cut key "W" to extract this sample to a WAV-file.



9) EMXP now asks whether the conversion of the selected sample should be done in an automated (batch) mode with minimal user intervention, or rather in a fully controlled manual mode. Since we don't want to bother about having to choose a file name for the target WAV file or having to select any other conversion parameter (the current settings in the Preferences are fine, e.g. loops will be converted), we decide to use the fully automated batch mode. We select item 1 and press ENTER.

```
                DEFINE WHETHER EMXP SHOULD EXTRACT SAMPLES AUTOMATICALLY OR NOT
-------------------------------------------------------------------------------
]X[  1. Yes, extract samples as automated as possible                (BATCH)
[ ]  2. No, user should have maximum control                        (MANUAL)
[ ]  3. Use custom automation level                            (SEMI-MANUAL)

          BATCH: All selected samples will be extracted
            automatically using the extraction preferences.
            You only have to specify the folder/disk where the
            the extracted samples should be saved.
          MANUAL: You can define all extraction parameters and
            you can specify the destination (e.g. target WAV names) for each
            extracted sample. Define which parts of
            the extraction process should be manual or automated.
          SEMI-MANUAL: The current extraction settings can be a
            mix of manual and automated processing, as has been configured
            previously in MANUAL or SEMI-MANUAL mode.

[ ]  4. Don't show this screen anymore
-------------------------------------------------------------------------------
[SPACE|1-4]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go___
-------------------------------------------------------------------------------
                          Please enter your choice:
```

10) The last thing we have to do before the conversion will take off is specifying in which folder the WAV file should be saved. We will save the file in the folder "\Wav". Since this is the current folder, we can simply accept the current folder by selecting item 1 labelled "[OK] >>> USE THE CURRENTLY DISPLAYED FOLDER" and pressing ENTER. *Pressing ENTER without selecting any item (not even item 1) works fine as well.*

```
                        SELECT TARGET FOLDER FOR WAV FILES
-------------------------------------------------------------------------------
                CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Wav\
-------------------------------------------------------------------------------
]X[  1. [OK] >>> USE THE CURRENTLY DISPLAYED FOLDER                      [U]
[ ]  2. [C:] >   CHANGE DRIVE                                            [D]
[ ]  3. [. ] >   GO TO ROOT FOLDER                                       [T]
[ ]  4. [..] >   GO TO PARENT FOLDER  (C:\Users\Kris\Documents\EMXP\)    [<]
[ ]  5.  |-> Casio CZ Samples

-------------------------------------------------------------------------------
[SPACE|1-5]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go___
[+]More [U]Go&Use__ [R]Refresh_ [D]Drive___ [<]Parent__ [T]Root____ [F]Factory_
-------------------------------------------------------------------------------
                          Please enter your choice:
```

11) After the sample conversion process is completed, EMXP will display a sample conversion execution report. This report explains which samples from which bank/file have been extracted to which WAV files. The (*) at the end the WAV file name indicates that the sample's loop has been saved in the WAV file.
The report is saved to disk as well. The location and file name of the report is mentioned at the end of the report. The report contains a sample conversion subreport for each bank from which samples have been converted. We can browse the report by pressing the UP and DOWN keys or PAGE UP and PAGE DOWN keys or HOME and END keys, but since the sample that has been converted is reported on the first screen, we simply leave the report by pressing ESCAPE.

```
                    REPORT: SAMPLE CONVERSION TO WAV FILE(S)
-------------------------------------------------------------------------------
 1 selected sample was processed
 This sample was extracted from 1 selected file

 -----------------------------------------------------------------------------

 1 sample of EMU-II bank file (Bank Marcato Strg):
   05 Marcato Strings.EII
     in C:\Users\Kris\Documents\EMXP\Images\Emulator II\EmuII Factory\
 ...HAS BEEN CONVERTED TO...
 1 WAV file (file name starting with 05 Marcato Strings_S4)
     in C:\Users\Kris\Documents\EMXP\Wav\
 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
 CONVERSION REPORT:

 The selected samples from EMULATOR-II bank Marcato Strg were processed:
   - 1 sample was successfully converted into a WAV file

 Samples that have been successfully converted to WAV files:
   S04  --> 05 Marcato Strings_S4.WAV (*)
-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                           Please enter your choice:
```

12) This is the end of guided tour #10. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #11: COMPRESSING AN 8 MB EMAX-II BANK INTO A 4 MB EMAX-II BANK

In this guided tour, we will compress an 8MB EMAX-II bank file into a 4MB EMAX-II bank file by lowering the sample rate of its samples.

1) After having started EMXP the main menu will appear. Since we want to compress an EMU EMAX-II file, we select the first menu function by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------
                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences
-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

2) The following menu gives access to all EMU objects. Since we want compress an EMAX-II file, we select the second menu function.

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------
              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files
-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

3) In the EMAX-II menu, we select the first menu function to get an overview of the EMAX-II bank files in the current folder.

```
                          EMAX-II SAMPLER MENU
-----------------------------------------------------------------------------

                1.  Manage EMAX-II Bank Files
                2.  Manage EMAX-II EMX Files
                3.  Manage EMAX-II Operating System Files
                4.  Manage EMAX-II Hard Disk Images
                5.  Manage EMAX-II Hard Disks
                6.  Manage EMAX-II Floppy Disk Images
                7.  Manage EMAX-II HxC Floppy Disk Images
                8.  Manage EMAX-I/EMAX-II Floppy Disks
                9.  Receive Samples from EMAX-II via RS422/MIDI

-----------------------------------------------------------------------------
            [1]...[9]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

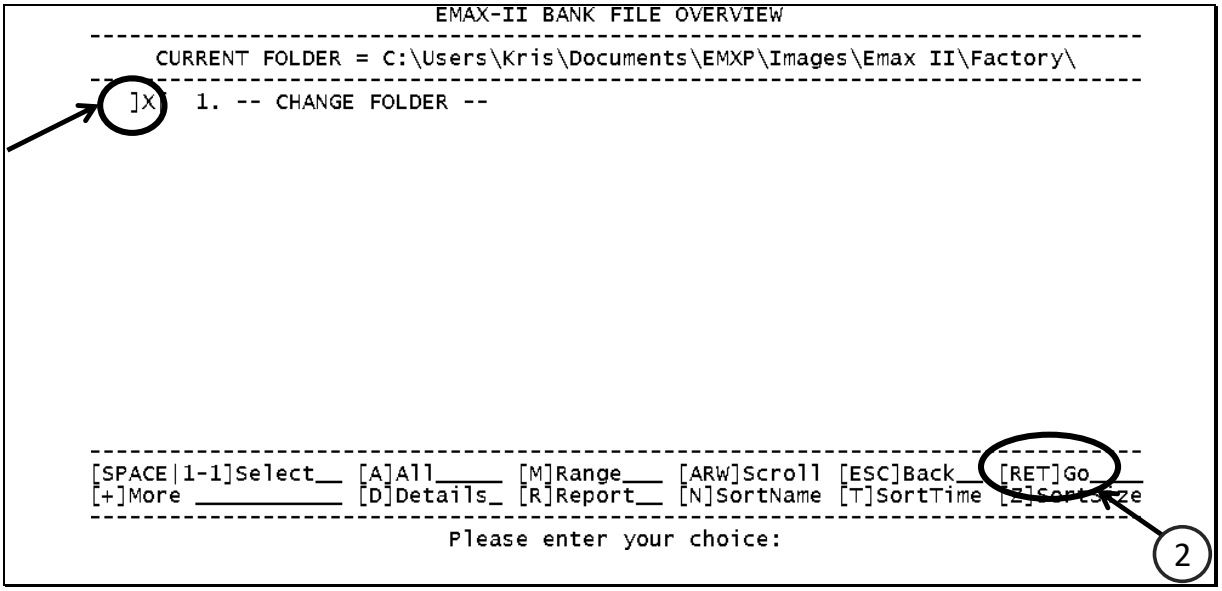
4) EMXP is looking for all EMAX-II bank files in the current folder for EMAX-II bank files. In our example this folder does not contain any bank files, so a warning is displayed. We press any key on the keyboard to skip this warning. We can also press the ESCAPE key to skip not only this warning but also any warning which may appear after this warning.

```
                                   WARNING
-----------------------------------------------------------------------------



                   No EMAX-II bank files could be found
                          in the current folder.

                     Please select another folder, or
               make sure there are valid EMAX-II bank files
           with a correct file extension in the current folder.

                       Press any key to continue...





-----------------------------------------------------------------------------
    [Any key]: Continue                          [ESC]: Skip warnings
-----------------------------------------------------------------------------
                         Press a key (or ESC)...: _
```

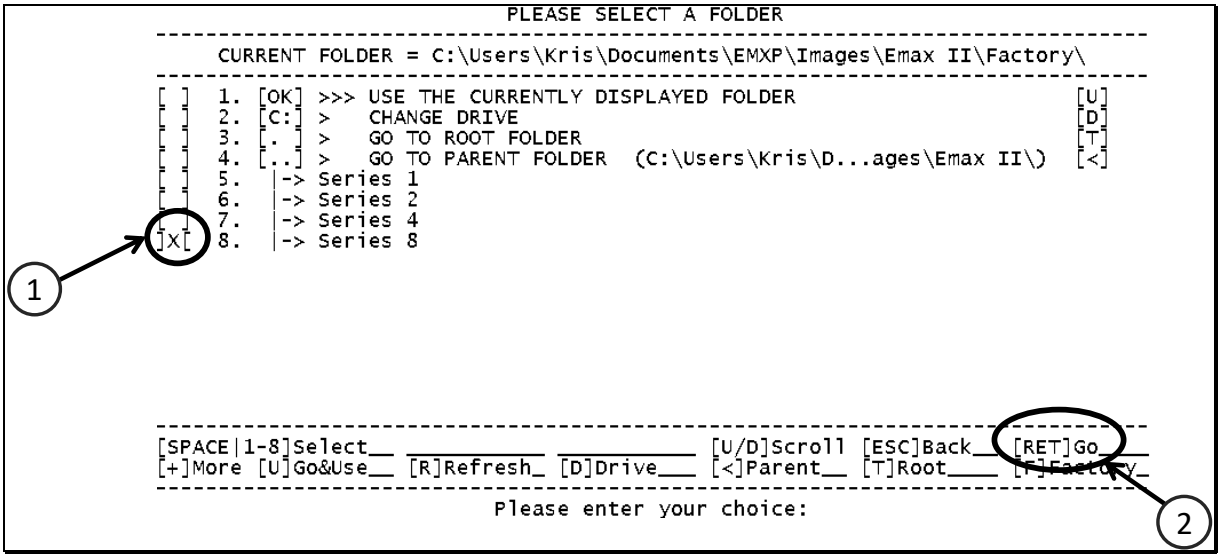
5) EMXP displays the overview of EMAX-II bank files now, but the overview is empty. Let's navigate to the folder which contains the EMAX-II bank files with a size of 8MB. We can do this by selecting the first item named "-- CHANGE FOLDER --". This can be done in two ways:

- by using the UP and DOWN key to move the cursor (marked "] [" instead of "[ ]") to the first item and pressing the SPACE bar to actually select that item. The selector in front of the item changes into "]X[" to indicate that the item has been selected. Note that in our example there is only one item displayed, so the cursor is positioned on the first item by default.
- by pressing "1" on the keyboard. The selector in front of the first item changes into]X[to indicate that the item is selected.

We press ENTER to go to the folder overview.



6) An overview of all subfolders of the current folder is displayed. In our example the 8MB bank files are in the "\Images\Emax II\Factory\Series 8" subfolder, so we select item 8 (by moving the cursor and pressing the SPACE bar or by entering "8" on the keyboard) and we press ENTER.



7) Now the subfolders of the selected "\Images\Emax II\Factory\Series 8" folder are displayed - note that we don't see the *files* of that folder, only the *folders.* Since this is the folder we want to use, we accept the folder by selecting the first item named "[OK] >>> USE THE CURRENTLY DISPLAYED FOLDER" and we press ENTER to get an overview of all EMAX-II bank files in that folder. *Simply pressing ENTER without selecting any item (not even item 1) works fine as well.*

```
                              PLEASE SELECT A FOLDER
 ------------------------------------------------------------------------------
 CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax II\Factory\Series 8\
 ------------------------------------------------------------------------------
 ]X[  1. [OK] >>> USE THE CURRENTLY DISPLAYED FOLDER                      [U]
 [ ]  2. [C:] >   CHANGE DRIVE                                            [D]
 [ ]  3. [. ] >   GO TO ROOT FOLDER                                       [T]
 [ ]  4. [..] >   GO TO PARENT FOLDER  (C:\Users\Kris\D...x II\Factory\)  [<]
 [ ]  5.  |-> Compressed Images
 [ ]  6.  |-> EMX Images

 ------------------------------------------------------------------------------
 [SPACE|1-6]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
 [+]More [U]Go&Use__ [R]Refresh_ [D]Drive___ [<]Parent__ [T]Root____ [F]Factory_
 ------------------------------------------------------------------------------
                              Please enter your choice:
```

1

2

8) In the EMAX-II bank files overview, we select the bank file that we would like to compress. In our example we select item 5, which is the "Bosendrf 2.2" bank file. We press shortcut key "D" to have a look at the bank details *(we may have to press the "+" key to scroll through the available shortcut keys at the bottom of the screen and to find that a "D" = "Details" shortcut key is indeed available...)*

```
                              EMAX-II BANK FILE OVERVIEW
 ------------------------------------------------------------------------------
 CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax II\Factory\Series 8\
 ------------------------------------------------------------------------------
   [ ]  01. -- CHANGE FOLDER --
   [ ]  02. Arch Banjo8M                    Arch Banjo #Pres: 16  #Samp: 18
   [ ]  03. AutoHrpMaj8M                    AutoHrpMaj #Pres: 15  #Samp: 14
   [ ]  04. AutoHrpMin8M                    AutoHrpMin #Pres: 21  #Samp: 16
   ]X[  05. Bosendrf 2.2                    Bosendrf 2 #Pres: 4   #Samp: 34
   [ ]  06. Boys Choir 8                    Boys Choir #Pres: 14  #Samp: 18
   [ ]  07. BsDrm&Timp8M                    BsDrm&Timp #Pres: 16  #Samp: 20
   [ ]  08. Celestes 8M                     Celestes 8 #Pres: 26  #Samp: 15
   [ ]  09. CelticHarp8M                    CelticHarp #Pres: 15  #Samp: 18
   [ ]  10. ChmbrlnVio8M                    ChmbrlnVio #Pres: 13  #Samp: 18
   [ ]  11. ColiseumCrd8                    ColiseumCr #Pres: 13  #Samp: 8
   [ ]  12. Crotales 8M                     Crotales 8 #Pres: 16  #Samp: 20
   [ ]  13. CumbusTrem8M                    CumbusTrem #Pres: 14  #Samp: 30
   [ ]  14. DobroSlide8M                    DobroSlide #Pres: 13  #Samp: 16
   [ ]  15. EMAXII 8M CD                    EMAXII 8M  #Pres: 1   #Samp: 0
   [ ]  16. Flat Banjo8M                    Flat Banjo #Pres: 15  #Samp: 18
 ------------------------------------------------------------------------------
 [SPACE|01-46]Select [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
 [+]More __________ [D]Details_ [R]Report__ [N]SortName [T]SortTime [Z]SortSize
 ------------------------------------------------------------------------------
                              Please enter your choice:
```

1

2

9) The bank details screen indicates that we have indeed selected a bank which is 8MB in size. Moreover there's a very limited number of presets (4) while the number of samples is 34. Since samples are typically re-used across presets, we can assume that each of the 4 presets uses many (or even all) of the 34 available samples. As a consequence, the total sample size of a single preset will be high as well. *Each* of them may even be 8MB in size. EMXP is able to split an 8MB bank into multiple 4MB banks by spreading the presets across multiple banks. But if each preset is more than 4MB in size itself, this technique will not be successful. Let's leave the bank details screen by pressing ESCAPE.

```
                    EMAX-II BANK DETAILS B00: BOSENDRF 2.2
-------------------------------------------------------------------------------

Bank name:                Bosendrf 2.2
Bank number:              B00

Type of bank:             EMAX-II
Size of bank:             8102980 Bytes
Size of samples:          8074308 Bytes        (= 4037154 Sample points)

Required No of Disks:     16 Floppy disks
Number of Presets:        4
Number of Samples:        34   (33 if Spectrum Synthesis has been used)
Number of Sequences:      0

Start up with Preset:     P00
Start up with Sequence:   None

Backup Status:            Not applicable


-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                          Please enter your choice:
```

10) In the bank overview screen, we press the "C" shortcut key now to start the conversion process *(again we may have to press the "+" key to scroll through the available shortcut keys at the bottom of the screen and to find that a "C" = "Convert" shortcut key is indeed available...)*

```
                                EMAX-II BANK FILE OVERVIEW
          -------------------------------------------------------------------------
          CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax II\Factory\Series 8\
          -------------------------------------------------------------------------
            [ ]  01. -- CHANGE FOLDER --
            [ ]  02. Arch Banjo8M                    Arch Banjo #Pres: 16  #Samp: 18
            [ ]  03. AutoHrpMaj8M                    AutoHrpMaj #Pres: 15  #Samp: 14
            [ ]  04. AutoHrpMin8M                    AutoHrpMin #Pres: 21  #Samp: 16
            ]X[  05. Bosendrf 2.2                    Bosendrf 2 #Pres: 4   #Samp: 34
            [ ]  06. Boys Choir 8                    Boys Choir #Pres: 14  #Samp: 18
            [ ]  07. BsDrm&Timp8M                    BsDrm&Timp #Pres: 16  #Samp: 20
            [ ]  08. Celestes 8M                     Celestes 8 #Pres: 26  #Samp: 15
            [ ]  09. CelticHarp8M                    CelticHarp #Pres: 15  #Samp: 18
            [ ]  10. ChmbrlnVio8M                    ChmbrlnVio #Pres: 13  #Samp: 18
            [ ]  11. ColiseumCrd8                    ColiseumCr #Pres: 13  #Samp: 8
            [ ]  12. Crotales 8M                     Crotales 8 #Pres: 16  #Samp: 20
            [ ]  13. CumbusTrem8M                    CumbusTrem #Pres: 14  #Samp: 30
            [ ]  14. DobroSlide8M                    DobroSlide #Pres: 13  #Samp: 16
            [ ]  15. EMAXII 8M CD                    EMAXII 8M  #Pres: 1   #Samp: 0
            [ ]  16. Flat Banjo8M                    Flat Banjo #Pres: 15  #Samp: 18
          -------------------------------------------------------------------------
          [SPACE|01-46]Select [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
          [+]More [P]Presets_ [S]Samples_ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
          -------------------------------------------------------------------------
                                Please enter your choice:
```

11) In the conversion menu we select menu function 2.

```
                    SELECT TARGET SAMPLER FORMAT
-------------------------------------------------------------------------

          1.  Convert to EMAX-I Sampler Format
          2.  Convert to EMAX-II Sampler Format
          3.  Convert to EMULATOR-I Sampler Format
          4.  Convert to EMULATOR-II Sampler Format
          5.  Convert to EMULATOR-III Sampler Format
          6.  Convert to EMULATOR-IIIX/ESI-V3 Sampler Format
          7.  Convert to SOUNDFONT2 Sampler Format
          8.  Convert to AKAI S1000 Sampler Format
          9.  Convert to SP-12 Sampler Format

-------------------------------------------------------------------------
         [1]...[9]: menu option                ESC: Go back
-------------------------------------------------------------------------
                     Please enter a menu option:
```

12) We will create a compressed EMAX-II bank file, so we select menu function 1 in the next screen.

```
             PLEASE SELECT A TARGET EMAX-II FILE/DISK TYPE
-------------------------------------------------------------------------

       1.  Convert to EMAX-II Bank in Bank File(s)
       2.  Convert to EMAX-II Bank in EMX File(s)
       3.  Convert to EMAX-II Bank on Floppy Disk Image File(s)
       4.  Convert to EMAX-II Bank in HxC Floppy Image File(s)
       5.  Convert to EMAX-II Bank on Hard Disk Image File
       6.  Convert to EMAX-II Bank on Hard Disk
       7.  Convert to EMAX-II Bank on Floppy Disk(s)



-------------------------------------------------------------------------
         [1]...[7]: menu option                ESC: Go back
-------------------------------------------------------------------------
                     Please enter a menu option:
```

13) EMXP now asks whether the conversion of the EMAX-II bank should be done in an automated (batch) mode with minimal user intervention, or rather in a fully controlled manual mode. In our example we want to have full control of the conversion process so we select the second item and press ENTER.

```
          DEFINE WHETHER EMXP SHOULD COPY/CONVERT ITEMS AUTOMATICALLY OR NOT
 ------------------------------------------------------------------------------
 [ ]  1. Yes, copy/convert items as automated as possible              (BATCH)
 ]x[  2. No, user should have maximum control                         (MANUAL)
 [ ]  3. Use custom automation level                                   (BATCH)

          BATCH: All selected items will be copied/converted
            automatically using the copy/conversion preferences, e.g.
            for sample rates. You only have to specify the folder/disk where
            the copied/converted items should be saved.
          MANUAL: You can define all copy/conversion parameters and
            you can specify the destination (e.g. target file names) for each
            copied/converted item. Define which parts of
            the copy/conversion process should be manual or automated.
          SEMI-MANUAL: The current copy/conversion settings can be a
            mix of manual and automated processing, as has been configured
            previously in MANUAL or SEMI-MANUAL mode.

 [ ]  4. Don't show this screen anymore
 ------------------------------------------------------------------------------
 [SPACE|1-4]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
 ------------------------------------------------------------------------------
                          Please enter your choice:
```

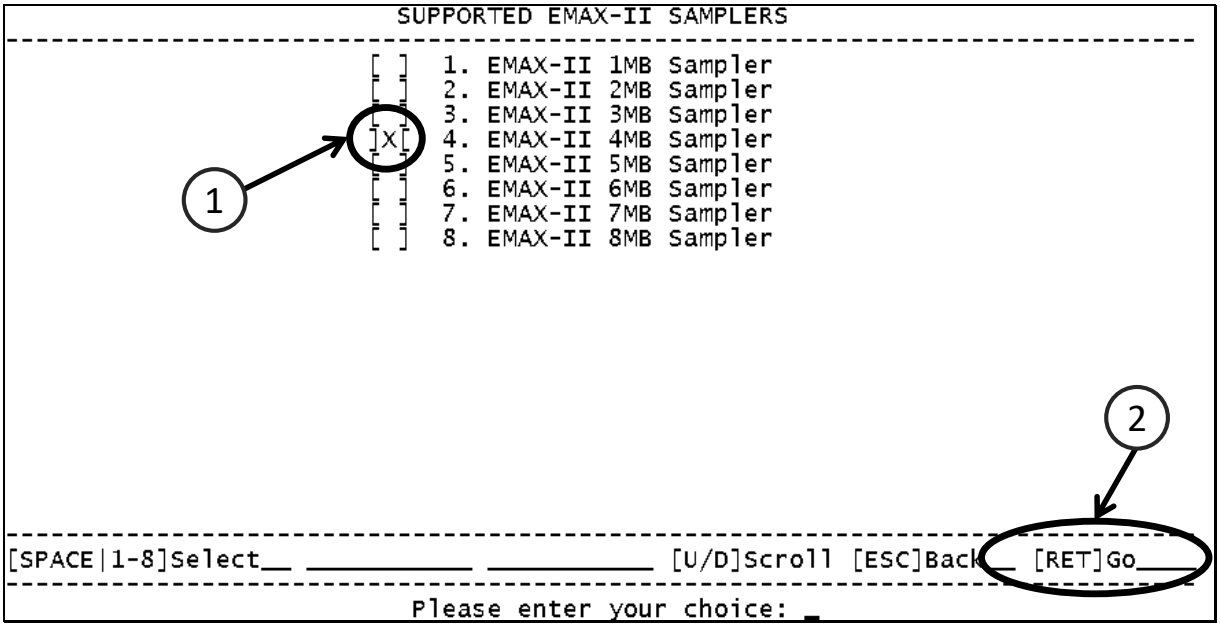
14) We have to decide now whether EMXP can take decisions itself or whether we want to have manual control regarding:

- the folder and file name of the target file
- errors and exceptions which may occur during the conversion process.

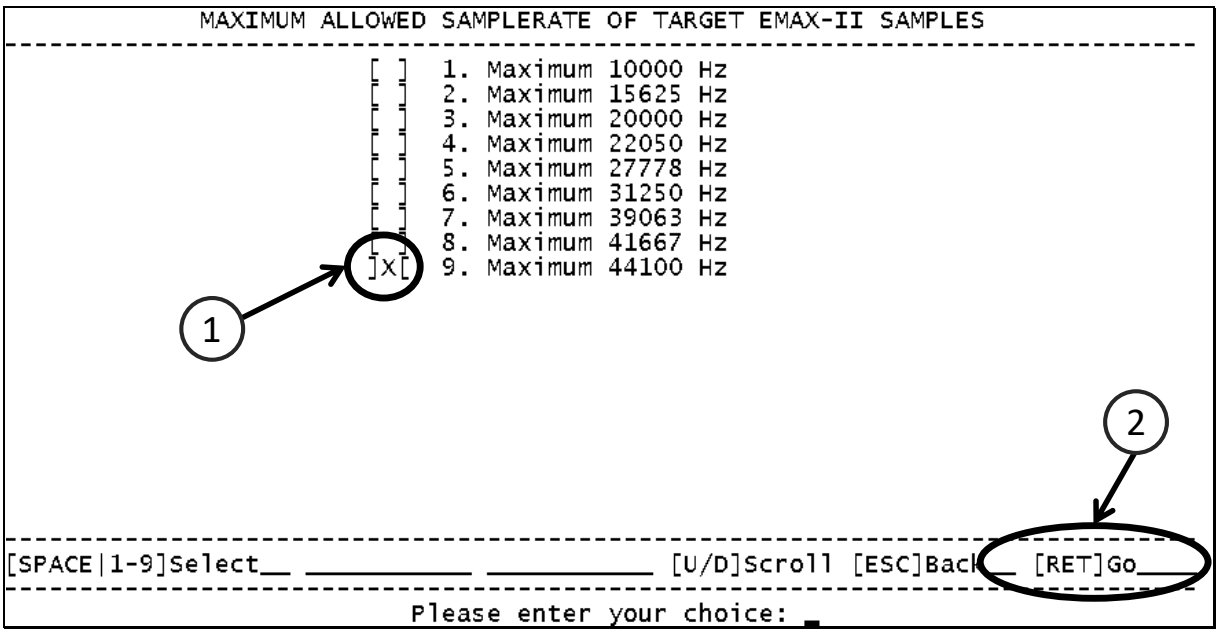
We want EMXP to automatically assign a file name to the target EMAX-II file, so we select item 2 instead of 1. However if an error or exception would occur during the conversion process, we would like to be informed immediately, so we select item 3. We press ENTER to go to the next screen.

```
          SPECIFY TO WHAT EXTENT EMXP CAN AUTOMATICALLY PROCESS SELECTED ITEMS
 ------------------------------------------------------------------------------
          PLEASE SPECIFY HOW THE TARGET FILES AND FILE NAMES SHOULD BE CHOSEN
 [ ]  1. Select target files and file names for storing banks yourself
 ]x[  2. Let EMXP automatically generate target files and file names

          IN CASE OF AN ERROR OR A CONFLICT WITH SAMPLER LIMITS OR PREFERENCES
 [x]  3. Always show a message or ask confirmation for solving the problem
 [ ]  4. EMXP can skip the item or decide itself how to solve the problem

 ------------------------------------------------------------------------------
 [SPACE|1-4]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
 ------------------------------------------------------------------------------
                          Please enter your choice: _
```

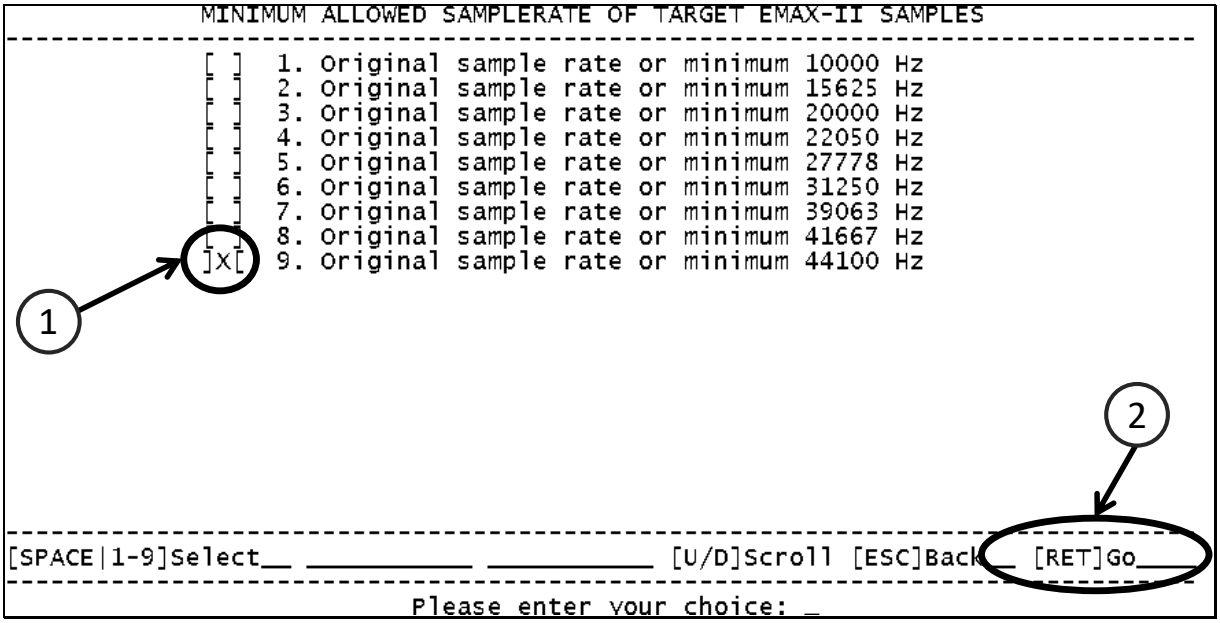
15) The next parameter is the size of the EMAX-II sampler in which the converted sound bank will be used. Since the source bank is 8MB in size but our EMAX-II sampler has only 4MB of memory available, we will ask EMXP to reduce the size of the target sound bank from 8Mb to 4MB. EMXP will try to do this by splitting the presets across multiple smaller banks in order to make them fit in the sampler's RAM. If that doesn't give any result, EMXP can resample the samples by using lower sample rates in order to reduce the size of all samples and hence also to reduce the size of the presets. By doing this, the probability that the bank can be reduced in size or can be split into multiple banks will increase. We select a memory size of 4MB (item 4) and press ENTER.



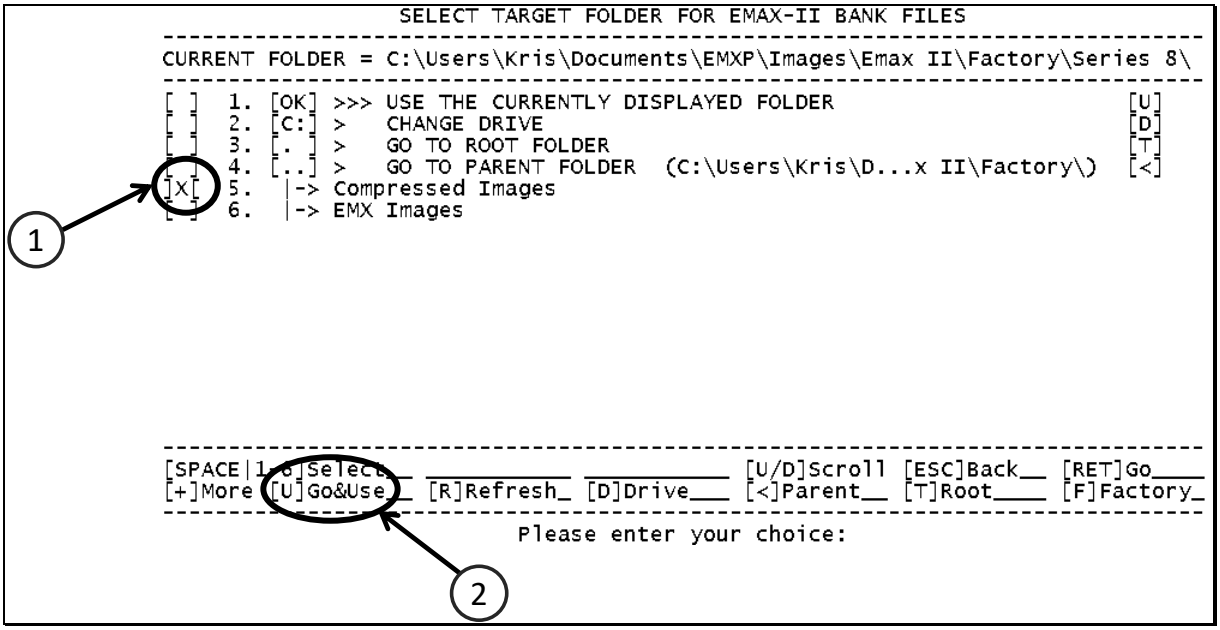
16) When converting from EMAX-II to EMAX-II, EMXP can change the sample rate of the samples. A maximum and a minimum sample rate can be defined. For some samplers (like the EMAX-I) the maximum sample rate determines the transposition range for the samples, but this is not the case for the EMAX-II. Reducing the maximum sample rate can also enforce a reduction of the bank size. But we will first do a conversion without sample rate reduction, in order to check whether EMXP is able to split the bank into multiple banks *without any loss of sample quality.* So we set this parameter to the maximum value (44100 Hz) by selecting item 9 and we press ENTER.



17) The minimum sample rate can be set as well. When converting sound banks, EMXP will never use sample rates lower than the one defined here, except if the original sample's sample rate is even lower. For now we will set this parameter to the maximum value, because we will first try to convert the EMAX-II bank into multiple smaller EMAX-II banks *without any loss of sample quality.* We select item 9 and press ENTER.



18) EMXP now launches the File Manager in which we have to select the folder in which EMXP should save the generated EMAX-II bank file. Since the current folder is not the target folder, we have to change the folder. In our example we will save the EMAX-II bank in folder "\Images\Emax II\Factory\Series 8\Compressed Images". So we select item 5 and we press the shortcut key "U" to confirm that we will use this folder.



19) EMXP starts the conversion of the 8MB EMAX-II bank file into 4MB EMAX-II bank files; as expected however, the conversion fails because EMXP does not succeed in splitting the bank into multiple smaller banks. Each of the presets is larger than 4MB, so none of the presets can be saved into a 4MB bank file. We press any key to continue.

```
                                    ERROR
-------------------------------------------------------------------------------



                                E R R O R   !
                                Errorcode 667
   Bank Bosendrf 2.2 can not be translated because none of its presets or
        samples are valid, or because all presets contain at least one
     invalid object, or because none of its presets and samples fit into
                     one or more EMAX-II banks. Sorry...





-------------------------------------------------------------------------------

-------------------------------------------------------------------------------
                             Press any key...: _
```

20) The conversion execution report is displayed now. The report contains the error message and clearly states that the conversion was not successful. We leave the report by pressing ESCAPE.

```
                REPORT: COPY/CONVERSION TO EMAX-II BANK FILE(S)
-------------------------------------------------------------------------------
 1 selected file has been processed
  (not all files were processed succesfully, due to errors)

 -------------------------------------------------------------------------------

 EMAX-II bank file (Bank Bosendrf 2.2):
   Bosendrf 2.2.EB2
     in C:\Users\Kris\Documents\EMXP\Images\Emax II\Factory\Series 8\
 ...HAS BEEN PARTIALLY CONVERTED TO...
   (no target objects have been created)
  ** This conversion process gave an error (errorcode 667) **
     [Bank Bosendrf 2.2 can not be translated because none of its presets or
      samples are valid, or because all presets contain at least one invali
     d object, or because none of its presets and samples fit into one or m
     ore EMAX-II banks. Sorry...]

 -------------------------------------------------------------------------------
 The full report has been written to file:
  EMXPCOPY2EMAXIILOG_20180501170712082.TXT
-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                          Please enter your choice:
```

21) We are back in the bank file overview now. Let's start a second attempt to compress the bank. This time we will allow EMXP to reduce the sample rate. We select item 5 and press the "C" shortcut key.

```
                              EMAX-II BANK FILE OVERVIEW
------------------------------------------------------------------------------
CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emax II\Factory\Series 8\
------------------------------------------------------------------------------
  [ ]  01. -- CHANGE FOLDER --
  [ ]  02. Arch Banjo8M                    Arch Banjo #Pres: 16  #Samp: 18
  [ ]  03. AutoHrpMaj8M                    AutoHrpMaj #Pres: 15  #Samp: 14
  [ ]  04. AutoHrpMin8M                    AutoHrpMin #Pres: 21  #Samp: 16
  ]X[  05. Bosendrf 2.2                    Bosendrf 2 #Pres: 4   #Samp: 34
  [ ]  06. Boys Choir 8                    Boys Choir #Pres: 14  #Samp: 18
  [ ]  07. BsDrm&Timp8M                    BsDrm&Timp #Pres: 16  #Samp: 20
  [ ]  08. Celestes 8M                     Celestes 8 #Pres: 26  #Samp: 15
  [ ]  09. CelticHarp8M                    CelticHarp #Pres: 15  #Samp: 18
  [ ]  10. ChmbrlnVio8M                    ChmbrlnVio #Pres: 13  #Samp: 18
  [ ]  11. ColiseumCrd8                    ColiseumCr #Pres: 13  #Samp: 8
  [ ]  12. Crotales 8M                     Crotales 8 #Pres: 16  #Samp: 20
  [ ]  13. CumbusTrem8M                    CumbusTrem #Pres: 14  #Samp: 30
  [ ]  14. DobroSlide8M                    DobroSlide #Pres: 13  #Samp: 16
  [ ]  15. EMAXII 8M CD                    EMAXII 8M  #Pres: 1   #Samp: 0
  [ ]  16. Flat Banjo8M                    Flat Banjo #Pres: 15  #Samp: 18
------------------------------------------------------------------------------
 [SPACE][01-46]Select [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
 [+]More [P]Presets_ [S]Samples_ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
------------------------------------------------------------------------------
                              Please enter your choice:
```

1

2

22) We select menu function 2 to convert the bank into EMAX-II format.

```
                        SELECT TARGET SAMPLER FORMAT
------------------------------------------------------------------------------

            1.  Convert to EMAX-I Sampler Format

            2.  Convert to EMAX-II Sampler Format

            3.  Convert to EMULATOR-I Sampler Format

            4.  Convert to EMULATOR-II Sampler Format

            5.  Convert to EMULATOR-III Sampler Format

            6.  Convert to EMULATOR-IIIX/ESI-V3 Sampler Format

            7.  Convert to SOUNDFONT2 Sampler Format

            8.  Convert to AKAI S1000 Sampler Format

            9.  Convert to SP-12 Sampler Format

------------------------------------------------------------------------------
           [1]...[9]: menu option                 ESC: Go back
------------------------------------------------------------------------------
                        Please enter a menu option:
```

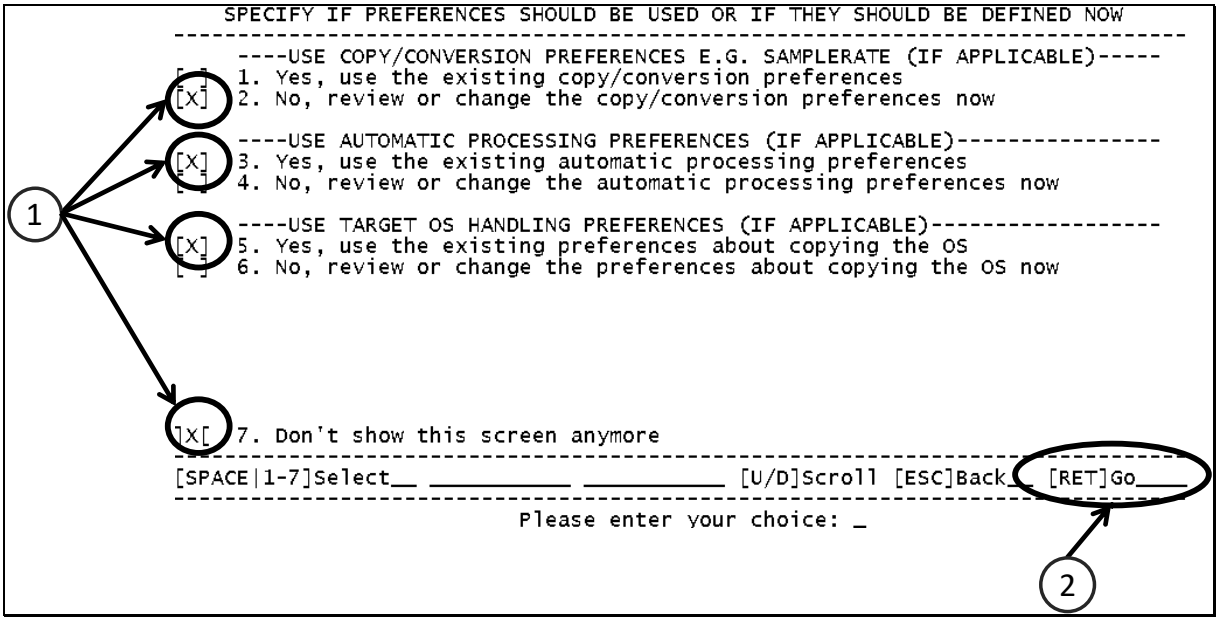
23) We select menu function 1 to create an EMAX-II bank file.

```
                PLEASE SELECT A TARGET EMAX-II FILE/DISK TYPE
-------------------------------------------------------------------------------

          1.  Convert to EMAX-II Bank in Bank File(s)

          2.  Convert to EMAX-II Bank in EMX File(s)

          3.  Convert to EMAX-II Bank on Floppy Disk Image File(s)

          4.  Convert to EMAX-II Bank in HxC Floppy Image File(s)

          5.  Convert to EMAX-II Bank on Hard Disk Image File

          6.  Convert to EMAX-II Bank on Hard Disk

          7.  Convert to EMAX-II Bank on Floppy Disk(s)




-------------------------------------------------------------------------------
            [1]...[7]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

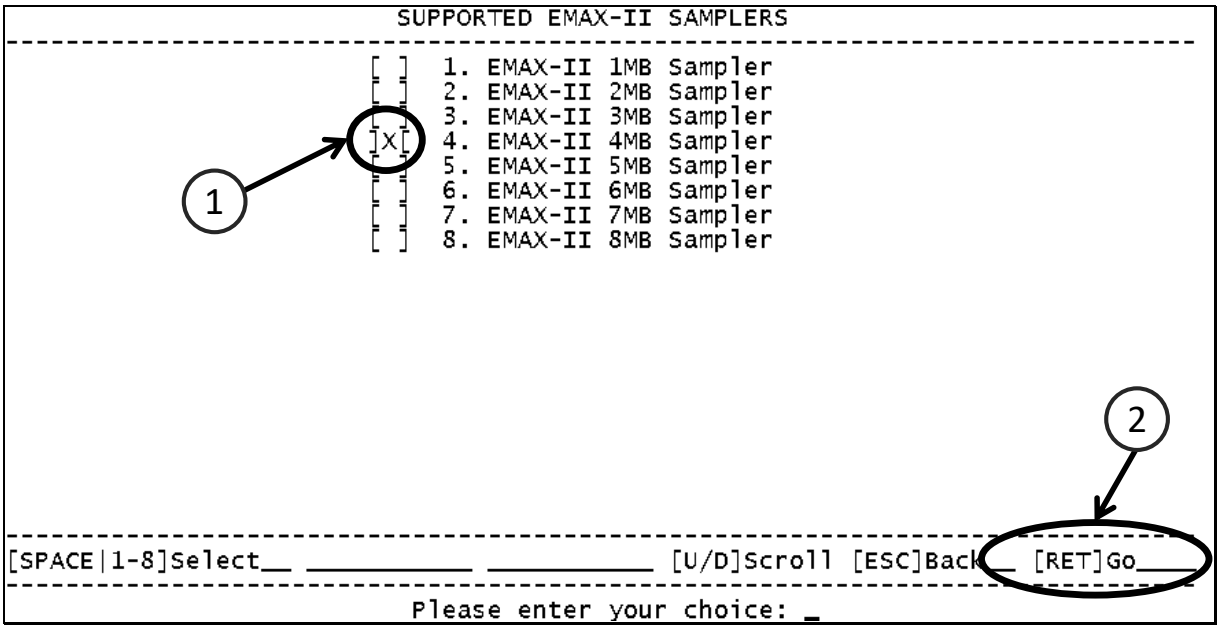
24) EMXP asks whether the conversion of the EMAX-II bank should be done in an automated (batch) mode with minimal user intervention, or rather in a fully controlled manual mode. In steps 13 and 154we have selected and configured the automation level by selecting the MANUAL mode. This configuration resulted in a SEMI-MANUAL mode, because we selected the automatic selection of target file names while opting for manually selecting the conversion parameters like memory size and sample rates. *To illustrate the custom automation level mode of EMXP* we will "freeze" now this previously configured SEMI-MANUAL mode for future conversions. This means that in the future we expect EMXP to launch only the conversion parameter screens and the target folder selection screen anymore. To achieve this, we select item 3 and press ENTER.

```
              DEFINE WHETHER EMXP SHOULD COPY/CONVERT ITEMS AUTOMATICALLY OR NOT
          -------------------------------------------------------------------------------
          [ ]  1. Yes, copy/convert items as automated as possible            (BATCH)
          [ ]  2. No, user should have maximum control                       (MANUAL)
          ]X[  3. Use custom automation level                            (SEMI-MANUAL)

1                BATCH: All selected items will be copied/converted
                   automatically using the copy/conversion preferences, e.g.
                   for sample rates. You only have to specify the folder/disk where
                   the copied/converted items should be saved.
                MANUAL: You can define all copy/conversion parameters and
                   you can specify the destination (e.g. target file names) for each
                   copied/converted item. Define which parts of
                   the copy/conversion process should be manual or automated.
                SEMI-MANUAL: The current copy/conversion settings can be a
                   mix of manual and automated processing, as has been configured
                   previously in MANUAL or SEMI-MANUAL mode.

          [ ]  4. Don't show this screen anymore
          -------------------------------------------------------------------------------
          [SPACE|1-4]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
          -------------------------------------------------------------------------------
                                   Please enter your choice:
                                                                                  2
```

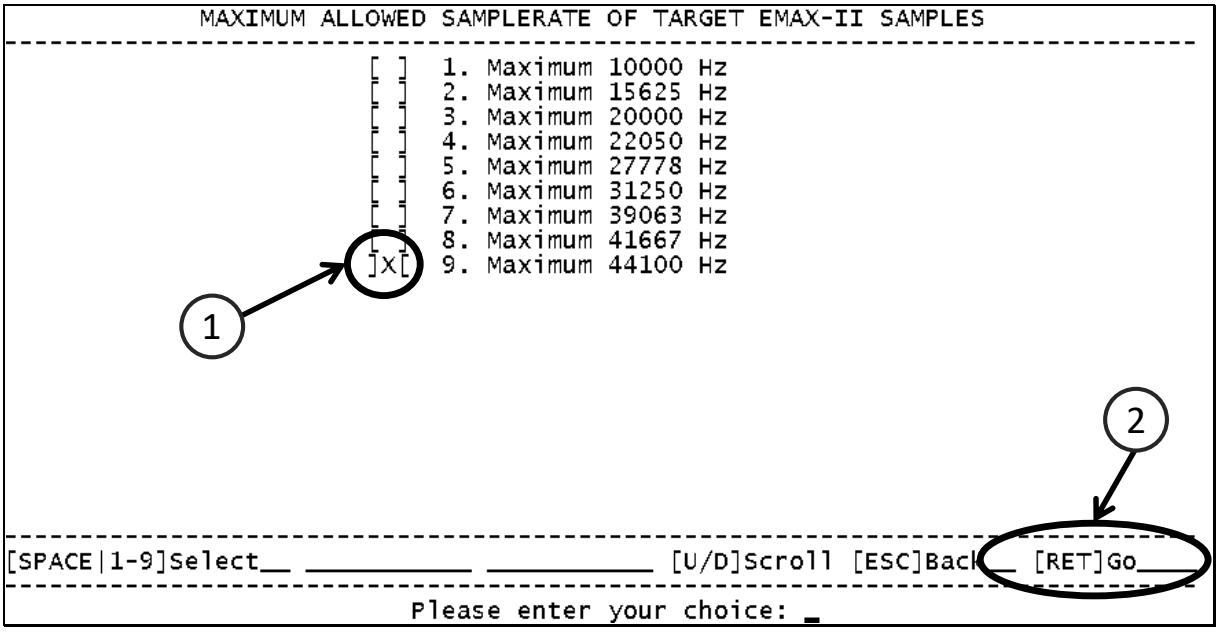
25) We can define now which of the currently configured parameter "groups" should be "frozen" and which of them we would like to revisit/change now. Since we are happy with the SEMI-MANUAL mode that has been configured in step 14, but still want to be able to review/change the conversion parameters like memory size and sample rates, we select items 3 and 2. We select item 5 as well, but this parameter is not applicable in conversions from EMAX-II bank files to EMAX-II bank files.
Moreover we select item 7 as well. By doing this the next time we will start a conversion, we will *only* be requested to set the conversion parameters (memory size, sample rate, ...) and to set the target folder; no other screen will appear anymore, not even this screen. This means we have created a *custom* workflow which suits us best. Let's press ENTER to launch the conversion parameter screens now.



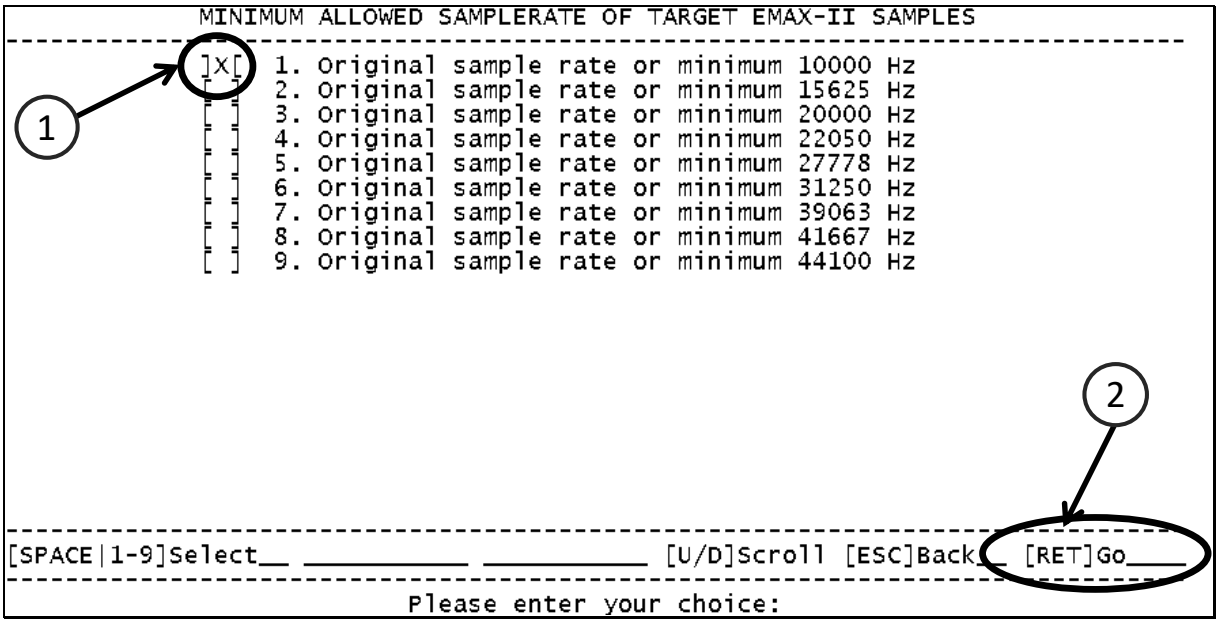
26) Just like in the previous conversion attempt, we set the target sampler memory size to 4MB by selecting item 4 and we press ENTER.



27) We will allow EMXP to decrease the sample rate during the conversion. We could define a lower *upper limit* for the sample rate, but we won't. We will still allow a maximum sample rate of 44100 Hz, but will allow EMXP to use a smaller sample rate by defining a lower *minimum sample rate.* See next step. We select item 9 and press ENTER.



28) By lowering the *minimum sample rate*, we tell EMXP that it can use *any sample rate between the minimum rate and the maximum rate* in its attempts to decrease the size of the presets or bank to make them fit in 4MB of memory space. A good practice is to lower the minimum sample rate step-by-step. In the previous attempt w e have tried the highest possible minimum sample rate (44100 Hz or original) but the conversion failed. So in a next attempt we should try the second-highest value (41667 Hz or original) and find out whether the conversion still fails. If it still fails, the next lower value (39063 Hz or original) should be tried. And so on. We have tried all values and only the lowest value (10000 Hz or original) resulted in a successful conversion. We don't illustrate all attempts here. We only show the final successful attempt: we select item 1 and press ENTER.



29) We have to select the target folder again. Since in our example we will save the EMAX-II bank in folder "\Images\Emax II\Factory\Series 8\Compressed Images", and this folder was already selected in our previous conversion attempt, EMXP remembered this folder so we can simply select the first item (">>> USE THE CURRENTLY DISPLAYED FOLDER") and press ENTER. *It's also possible to press ENTER without selecting any item, not even item 1.*

```
                         SELECT TARGET FOLDER FOR EMAX-II BANK FILES
--------------------------------------------------------------------------------
CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Ima...Series 8\Compressed Images\
--------------------------------------------------------------------------------
]X[  1. [OK] >>> USE THE CURRENTLY DISPLAYED FOLDER                      [U]
[ ]  2. [C:] >   CHANGE DRIVE                                            [D]
[ ]  3. [. ] >   GO TO ROOT FOLDER                                       [T]
[ ]  4. [..] >   GO TO PARENT FOLDER  (C:\Users\Kris\D...ory\Series 8\)  [<]

--------------------------------------------------------------------------------
[SPACE|1-4]Select__ __________ __________ [U/D]Scroll [ESC]Back___ [RET]Go____
[+]More [U]Go&Use__ [R]Refresh_ [D]Drive___ [<]Parent__ [T]Root____ [F]Factory_
--------------------------------------------------------------------------------
                                Please enter your choice:
```

30) EMXP is converting and compressing the EMAX-II bank now, and this time the conversion is successful. No error is raised anymore. EMXP has re-sampled all (or a subset of the) samples to samples with a sample rate of 10000Hz in order to make the target bank fit in 4MB of memory. Of course the quality of the samples will not be very good anymore - 10000 Hz is a pretty low sample rate !
At the end of the conversion process a conversion execution report is displayed. This report has been saved to disk as well; the folder and file in which the report has been saved can be found at the end of the report. The first part of the report explains which banks/files have been converted to which banks/files. We can browse the report by scrolling with the UP and DOWN keys or with the PAGE UP and PAGE DOWN keys.

```
                 REPORT: COPY/CONVERSION TO EMAX-II BANK FILE(S)
--------------------------------------------------------------------------------
 1 selected file has been processed

 ------------------------------------------------------------------------------

 EMAX-II bank file (Bank Bosendrf 2.2):
   Bosendrf 2.2.EB2
     in C:\Users\Kris\Documents\EMXP\Images\Emax II\Factory\Series 8\
 ...HAS BEEN CONVERTED TO...
 Bank Bosendrf 2.2 in EMAX-II bank file:
   Bosendrf 2.2.EB2
     in C:\Users\Kris\Documents\EMXP\Image...tory\Series 8\Compressed Images\
 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
 CONVERSION REPORT:

 EMAX-II bank "Bosendrf 2.2"
   has been translated to 1 EMAX-II banks.

 - 0 presets have NOT been translated (see end of report).
 - 0 samples have NOT been translated (see end of report).
--------------------------------------------------------------------------------
     [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
--------------------------------------------------------------------------------
                        Please enter your choice:
```

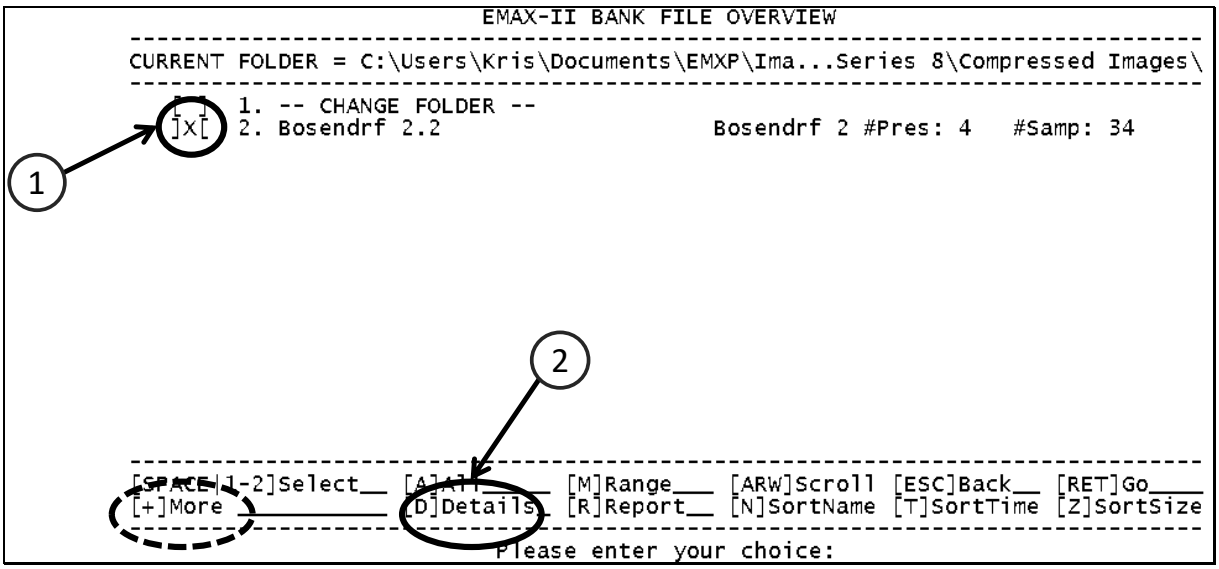
31) After having scrolled down a few lines, we can find an overview of the presets generated in the target EMAX-II bank. We can scroll further down but we decide to leave the report now by pressing ESCAPE.

```
                REPORT: COPY/CONVERSION TO EMAX-II BANK FILE(S)
-------------------------------------------------------------------------------
 EMAX-II bank "Bosendrf 2.2"
   has been translated to 1 EMAX-II banks.

 - 0 presets have NOT been translated (see end of report).
 - 0 samples have NOT been translated (see end of report).
 - 0 voices have NOT been translated (see end of report).

 All stereo voices have been preserved as PRI & SEC Emax voices.

 EMAX-II bank overview:

 Bank 1: Bosendrf 2.2
   Presets:
     P00 Bosendrf 2.2 (original: P000)
     P01 Bosndrfr Drk (original: P001)
     P02 Bosndrfr Med (original: P002)
     P03 Bosndrfr Brt (original: P003)
   Samples:
     S01 SAMPLE 01    (original: S012)
-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                           Please enter your choice:
```

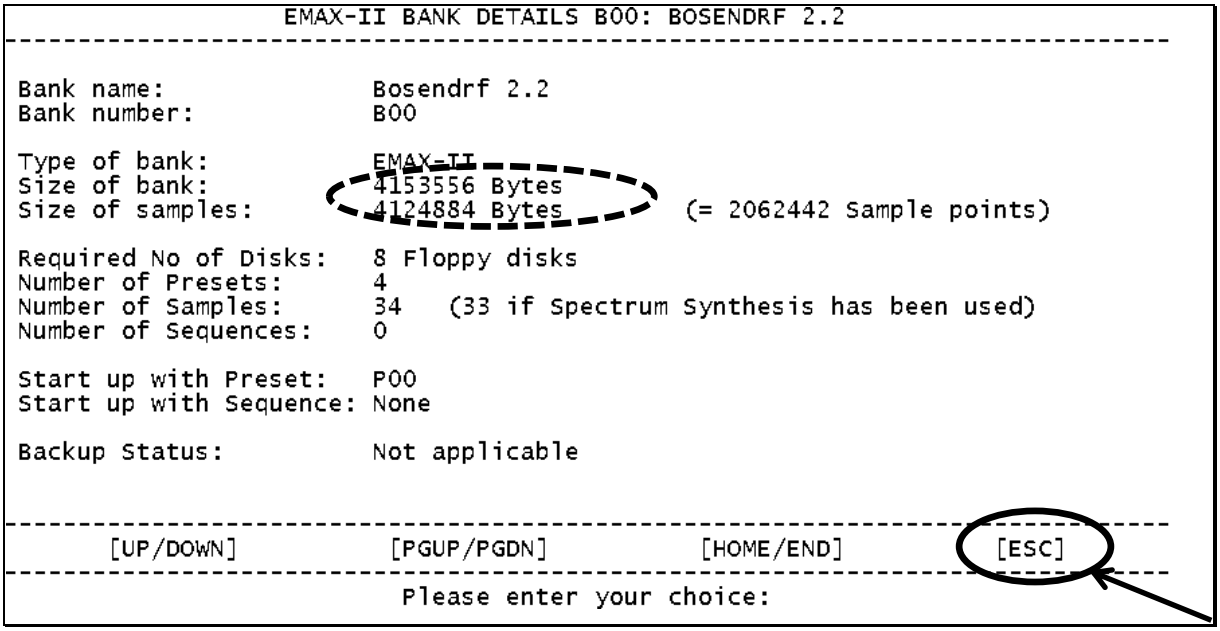
32) After having left the conversion execution report screen, EMXP returns to the EMAX-II sampler menu *(EMXP always returns to the main sampler menu if files/banks of the same type as the source files/banks have been created. This is true in our example, because we converted an EMAX-II bank file into an EMAX-II bank file).* Let's check now whether the generated EMAX-II bank file has indeed a size of 4MB or less... We select menu function 1 and press ENTER.

```
                              EMAX-II SAMPLER MENU
-------------------------------------------------------------------------------

                1.  Manage EMAX-II Bank Files

                2.  Manage EMAX-II EMX Files

                3.  Manage EMAX-II Operating System Files

                4.  Manage EMAX-II Hard Disk Images

                5.  Manage EMAX-II Hard Disks

                6.  Manage EMAX-II Floppy Disk Images

                7.  Manage EMAX-II HxC Floppy Disk Images

                8.  Manage EMAX-I/EMAX-II Floppy Disks

                9.  Receive Samples from EMAX-II via RS422/MIDI

-------------------------------------------------------------------------------
            [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                           Please enter a menu option:
```

33) In the EMAX-II bank file overview, we select the bank file that we have just created. In our example this is the file "Bosendrf 2.2" in the "\Compressed Images" subfolder, so we select item 2 and press "D" to check the bank details *(we may have to press the "+" key to scroll through the available shortcut keys at the bottom of the screen and to find that a "D" = "Details" shortcut key is indeed available...)*



34) The bank details screen clearly indicates that the new bank is only 4MB in size, while still having the 4 presets and 34 samples. This means that the compression was successful ! We leave the screen by pressing ESCAPE.



35) This is the end of guided tour #11. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #12: SENDING A BANK TO AN EMULATOR-II WITH RS422

In this guided tour, we will upload an Emulator-II bank file to an Emulator-II sampler by means of an RS422 communication link. We will use an EmuSer USB ←→ RS422 adapter.

When using the RS422 port of the Emulator-II you will need a special RS422 adapter connected to your computer. Off-the-shelf commercial RS232/RS422/RS485 adapters don't work with the Emulator-II and EMXP. The adapter must be capable of being externally clocked by means of a "set baud rate to 500000" instruction.
The EmuSer is a DIY adapter which can be used with the Emulator-II, the EMAX-I, the EMAX-II and the Oberheim DPX-1. If you are using an EmuSer, make sure it's connected to a HIGH powered USB port of your computer. Avoid LOW powered USB ports because they cause the communication link to be unreliable/unstable.

1) After having started EMXP the main menu will appear. Since we want to send an EMU Emulator-II bank file, we select menu function 1 by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------

                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences




-----------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-----------------------------------------------------------------------------
                          Please enter a menu option:
```

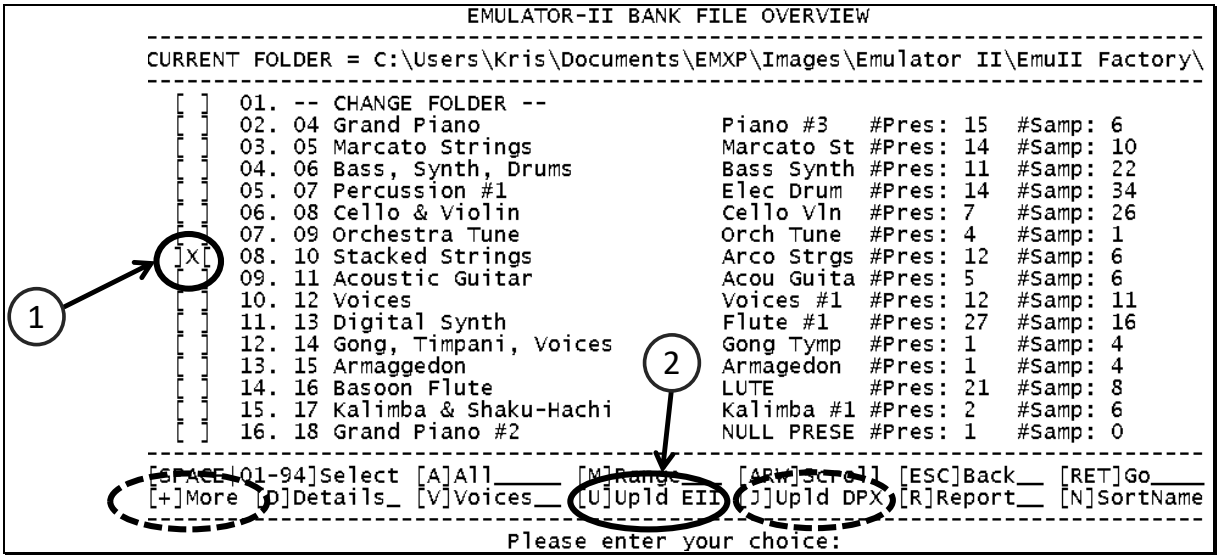
2) The Emu Sampler menu will appear. Since we want to send an Emulator-II bank file, we select menu function 4 by pressing "4" on the keyboard of the computer.

```
                              EMU SAMPLER MENU
-------------------------------------------------------------------------------

              1.  Manage EMU EMAX-I Files and Disks

              2.  Manage EMU EMAX-II Files and Disks

              3.  Manage EMU EMULATOR-I Files

              4.  Manage EMU EMULATOR-II Files and Disks

              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks

              6.  Manage EMU SP-12 Files

-------------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

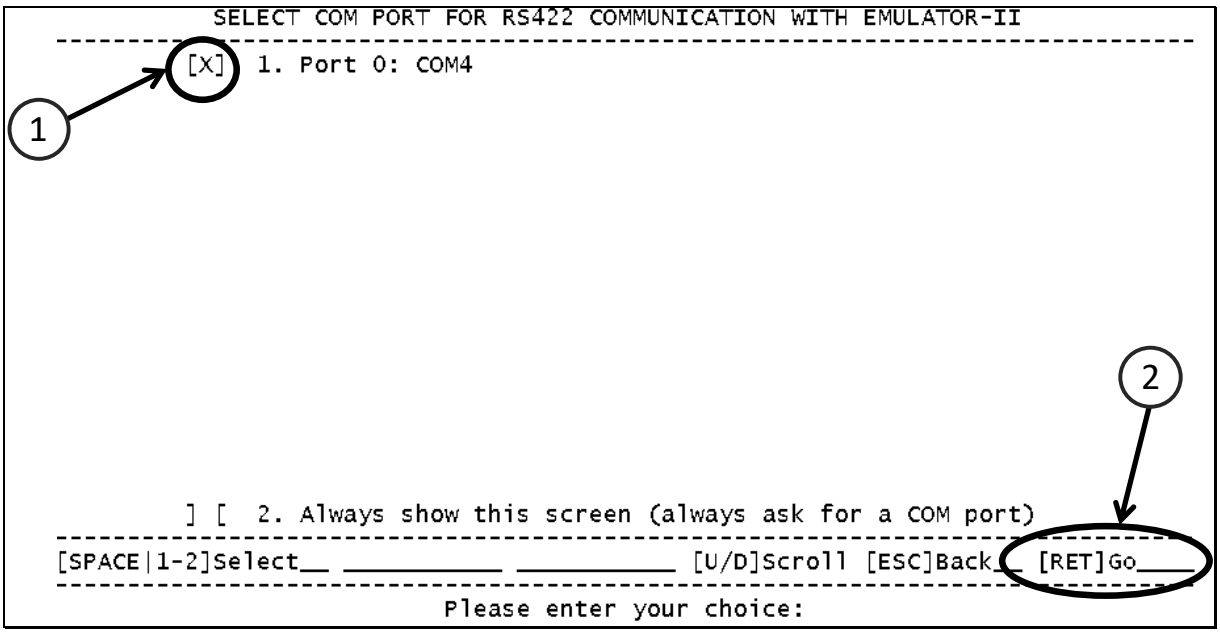
3) In the Emulator-II menu, we select the first menu function to get an overview of the Emulator-II bank files in the current folder.

```
                          EMULATOR-II SAMPLER MENU
-------------------------------------------------------------------------------

              1.  Manage EMULATOR-II Bank Files

              2.  Manage EMULATOR-II Floppy Disk Images

              3.  Manage EMULATOR-II HxC Floppy Disk Images

              4.  Manage EMULATOR-II Hard Disk Images (e.g. DREM)

              5.  Manage EMULATOR-II Hard Disks

              6.  Manage EMULATOR-II Operating System Files

              7.  Receive Banks from EMULATOR-II via RS422

              8.  Receive Samples from EMULATOR-II via RS422

-------------------------------------------------------------------------------
            [1]...[8]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

4) EMXP is looking for all Emulator-II bank files in the current folder, and displays an overview of these files. We will upload the file named "10 Stacked Strings" so we select item 8 either by moving the cursor ("] [") with the UP and DOWN keys to the item and by pressing the SPACE bar, or simply by entering "08" on the keyboard (or "8" followed by ENTER). We press the "U" shortcut key to immediately upload the bank to the Emulator-II. Shortcut key "U" will indeed appear as one of the available shortcut keys after pressing the "+" key. Note that there's also a shortcut key for uploading the bank to the Oberheim DPX-1 (see key "J").
Hint: when using the Emulator-II in a gig/performance you may have a set list/track list which requires different banks to be uploaded one after another. You can prepare this bank list by copying the banks to a separate folder, and renaming the files by adding the track numbers in front of the file name (to enforce an alphabetical order which corresponds to the track list). Then select all banks files in the folder by entering "A" on the keyboard, and continue with steps 5 → 7. EMXP will be set in a loop, waiting for uploading the next bank while you are performing the current track. After each track, you simply have to press ENTER to start loading the next bank.



5) EMXP is now requesting the COM port of the RS422 adapter/port. This is done only once (EMXP will remember this port and will not ask for it anymore in the future, unless you select option 2). In our example we only have one COM port in use, so the COM port overview screen shows only one COM port. COM port 4 is the port number assigned to the EmuSer. We can check the COM ports in the Device Manager of Windows (see Control Panel). We select item 1 and press ENTER.



6) EMXP is ready now to upload the bank file. We can press any key (except ESCAPE) to start the upload.

```
                              PLEASE CONFIRM
-------------------------------------------------------------------------------


                    Ready to upload bank Arco Strgs 1
                       from 10 Stacked Strings.EII
                           to the EMULATOR-II.
              Press any key to continue or [ESC] to cancel.




-------------------------------------------------------------------------------
       [ESC]: Cancel                        [Any other key]: Continue
-------------------------------------------------------------------------------
                    Choose [ESC]ape or any other key:
```

7) The bank is being uploaded by EMXP. This process takes about 20 seconds and can not be interrupted.

```
                        UPLOADING EMULATOR-II BANK
-------------------------------------------------------------------------------

            EMXP is uploading EMULATOR-II bank Arco Strgs 1 from

                          10 Stacked Strings.EII

                              Please wait...




-------------------------------------------------------------------------------
                                PLEASE WAIT
-------------------------------------------------------------------------------
          |||||||||||||||||||||||
```

8) The bank upload is finished. If we would have selected multiple bank files in step 4, EMXP would now ask if we are ready to upload the next bank file (see step 6). We only selected one file, so we get a message that the bank file has been successfully uploaded. We press any key to leave this screen.

```
                              PROCESS COMPLETED
-------------------------------------------------------------------------------

                    The EMULATOR-II bank has been uploaded.
                          Press any key to continue.



-------------------------------------------------------------------------------
                            [Any key]: Continue
-------------------------------------------------------------------------------
                             Press a key...:
```

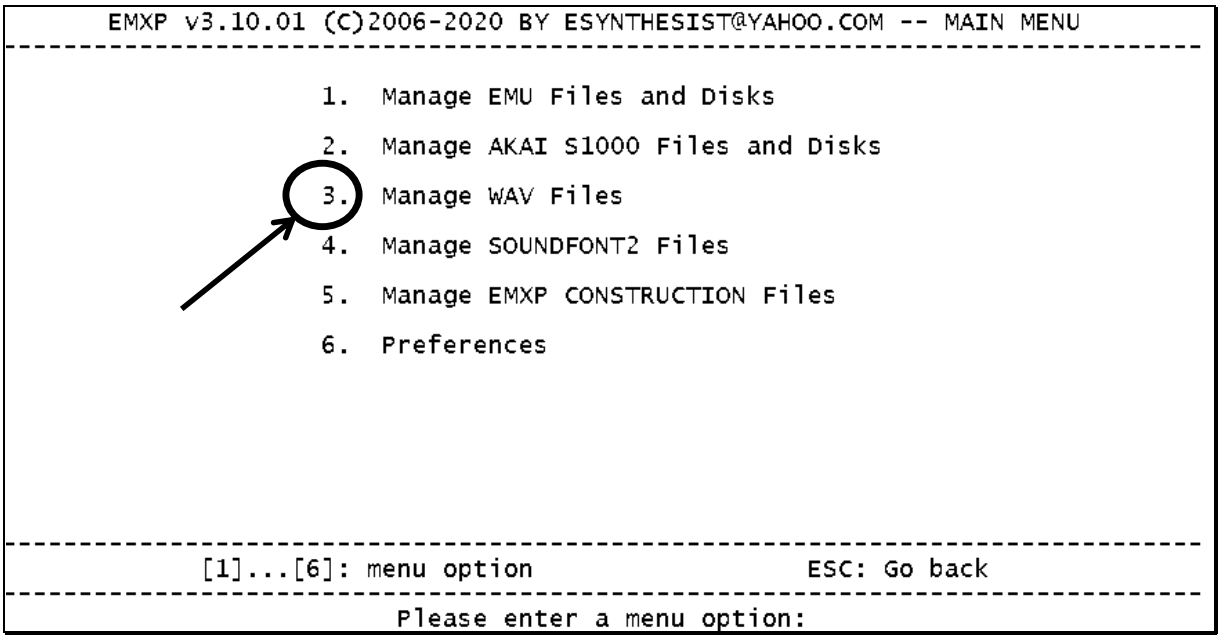
9) This is the end of guided tour #12. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #13: SENDING SAMPLES TO AN EMAX-I WITH RS422

In this guided tour, we will upload a stereo WAV file to an EMAX-I sampler by means of an RS422 communication link. In a second step we will replace one of the voices of this uploaded stereo sample by another WAV file (this time a mono WAV file), again by means of an RS422 communication link. None of the WAV files contain a loop. We will use an EmuSer USB ←→ RS422 adapter. Before starting uploading samples, we have booted the EMAX-I sampler with an empty bank in memory.

When using the RS422 port of the EMAX-I you will need a special RS422 adapter connected to your computer. Off-the-shelf commercial RS232/RS422/RS485 adapters don't work with the EMAX-I and EMXP. The adapter must be capable of being externally clocked by means of a "set baud rate to 500000" instruction.
The EmuSer is a DIY adapter which can be used with the Emulator-II, the EMAX-I, the EMAX-II and the Oberheim DPX-1. If you are using an EmuSer, make sure it's connected to a HIGH powered USB port of your computer. Avoid LOW powered USB ports because they cause the communication link to be unreliable/unstable.

1) After having started EMXP the main menu will appear. Since we want to send a WAV file to a sampler, we select menu function 3 by pressing "3" on the keyboard of the computer.



2) In the next menu, we select menu function 1 to get an overview of all WAV files.

```
                              WAV FORMAT MENU
-------------------------------------------------------------------------------

          1.  Manage   WAV Files

          2.  Basic    WAV-to-Sampler Conversion (automatic)

          3.  Advanced WAV-to-Sampler Conversion (EMXP CONSTRUCTION)

-------------------------------------------------------------------------------
             [1]...[3]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

3) EMXP displays an overview of all WAV files in the current folder. The folder is fine, so we don't have to change the folder by means of selecting item 1 labelled "-- CHANGE FOLDER --". We will send the WAV file named "GrandPiano_C#2", which is a stereo WAV file. We select item 9 either by moving the cursor ("] [") with the UP and DOWN keys to item 9 and pressing the SPACE bar, or simply by entering "09" on the keyboard (or "9" followed by ENTER). Then we press ENTER to launch the WAV file menu. *A faster way of starting the sample upload will be explained in step 13.*

```
                                  WAV FILE OVERVIEW
-------------------------------------------------------------------------------
                CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Wav\
-------------------------------------------------------------------------------
  [ ]  01. -- CHANGE FOLDER --
  [ ]  02. B3 HAM1 A2                      2347 ms    31000 Hz   mono
  [ ]  03. B3 HAM1 B1                      1771 ms    31000 Hz   mono
  [ ]  04. B3 HAM1 C5                      2219 ms    31000 Hz   mono
  [ ]  05. B3 HAM1 D4                      2248 ms    31000 Hz   mono
  [ ]  06. B3 HAM1 G1                      2025 ms    31000 Hz   mono
  [ ]  07. B3 HAM1 G3                      1569 ms    31000 Hz   mono
  [ ]  08. B3 HAM1 G5                      1327 ms    31000 Hz   mono
  ]X[  09. GrandPiano_C#2                  2994 ms    22050 Hz   stereo
  [ ]  10. GrandPiano_C3                   2431 ms    22050 Hz   stereo
  [ ]  11. GrandPiano_C5                   1928 ms    30000 Hz   stereo
  [ ]  12. GrandPiano_C6                   1583 ms    36000 Hz   stereo
  [ ]  13. GrandPiano_E4                   2870 ms    30000 Hz   stereo
  [ ]  14. HARP A#3                        1367 ms    44100 Hz   mono
  [ ]  15. HARP B4                         1380 ms    44100 Hz   mono
  [ ]  16. HARP C#7                        574 ms     44100 Hz   mono
-------------------------------------------------------------------------------
[SPACE|01-56]Select [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go____
[+]More [C]Convert_ [L]Play____ [U]RS Emax_ [W]MidiEmax [V]RS Emax2 [X]MidiEmx2
-------------------------------------------------------------------------------
                          Please enter your choice:
```

1

2

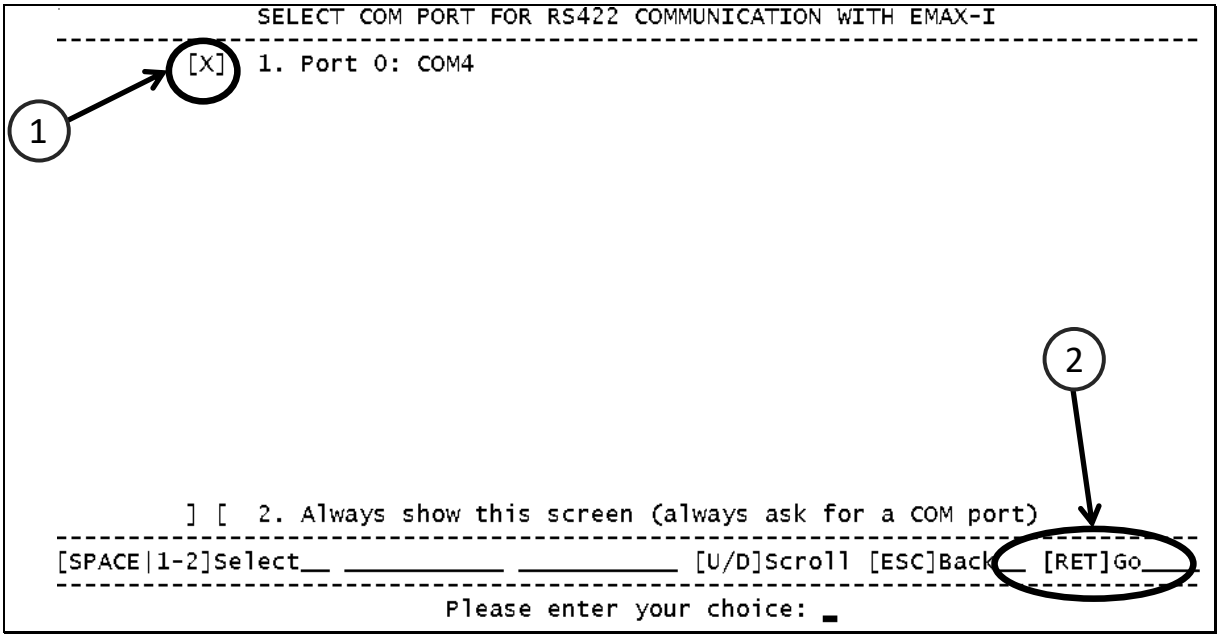
4) In the WAV file menu, we select menu function 2 to send the selected WAV file to the EMAX-I sampler.

```
                              WAV FILE MENU
-----------------------------------------------------------------------------

          1.  Convert selected WAV File(s) to Other Sampler Format
          2.  Send WAV File(s) to EMAX via RS422/MIDI
          3.  Send WAV File(s) to EMULATOR-II via RS422
          4.  Send WAV File(s) to SP-12 via MIDI
          5.  Play selected WAV File(s)

-----------------------------------------------------------------------------
            [1]...[5]: menu option                ESC: Go back
-----------------------------------------------------------------------------
                        Please enter a menu option: _
```

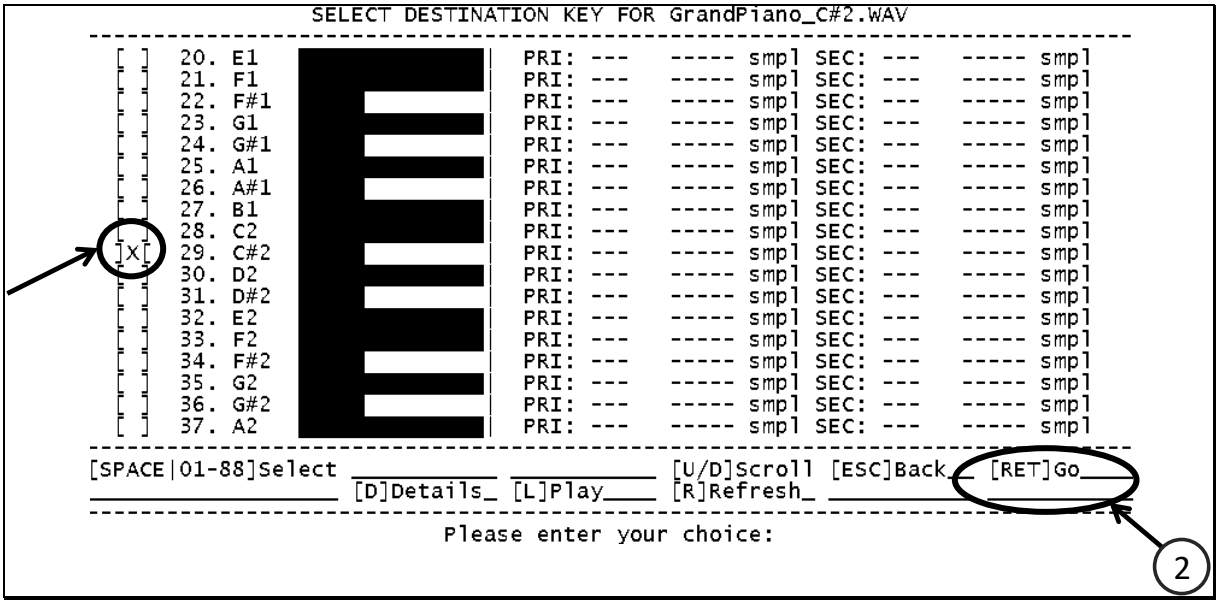
5) Since the target sampler is an EMAX-I and since we will use RS422 instead of MIDI, we select menu function 1 in the next menu screen.

```
                    EMAX RS422 OR MIDI SAMPLE UPLOAD MENU
-----------------------------------------------------------------------------

                  1.  Send WAV File(s) to EMAX-I via RS422
                  2.  Send WAV File(s) to EMAX-II via RS422
                  3.  Send WAV File(s) to EMAX-I via MIDI
                  4.  Send WAV File(s) to EMAX-II via MIDI

-----------------------------------------------------------------------------
            [1]...[4]: menu option                ESC: Go back
-----------------------------------------------------------------------------
                        Please enter a menu option:
```

6) EMXP is now requesting the COM port of the RS422 adapter/port. This is done only once (EMXP will remember this port and will not ask for it anymore in the future, unless you select option 2). In our example we only have one COM port in use, so the COM port overview screen shows only one COM port. COM port 4 is the port number assigned to the EmuSer. We can check the COM ports in the Device Manager of Windows (see Control Panel). We select item 1 and press ENTER.



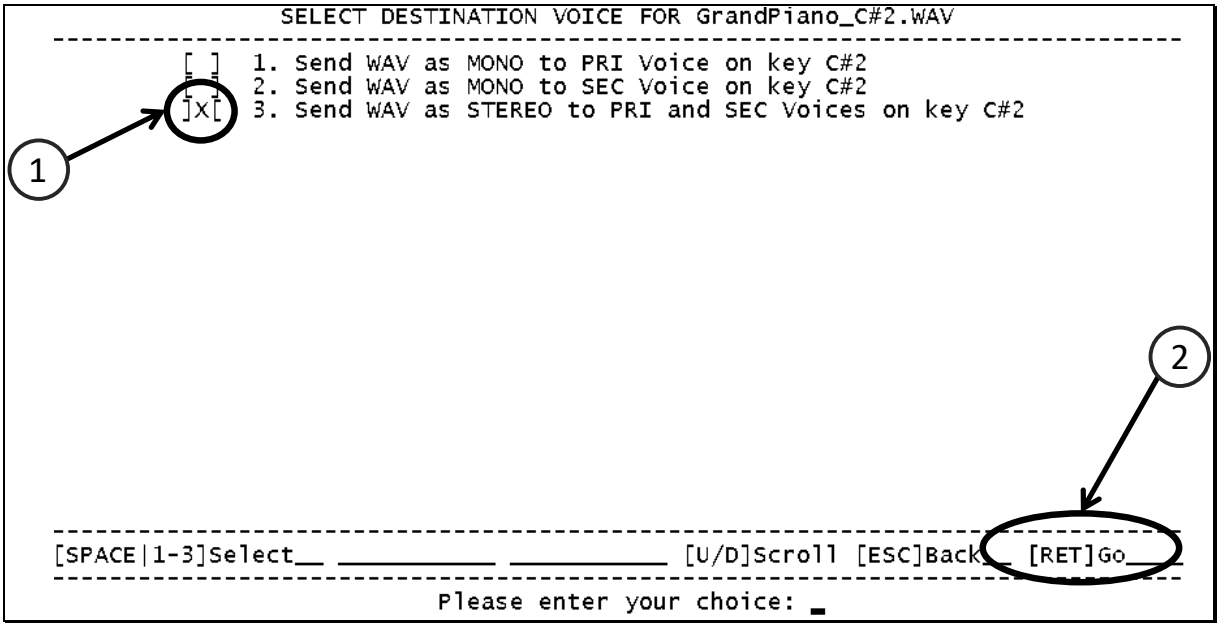
7) EMXP is now connecting to the EMAX-I and retrieving information about all voices and all samples of the *current preset's* keys. Since we have booted the EMAX-I sampler with no bank in memory, the current preset is a NULL preset so it's empty. The key overview displayed by EMXP does not show any samples assigned to any of the preset's keys. We will upload the selected WAV file to key C#2, so we scroll down a few lines and select item 29 and press ENTER.



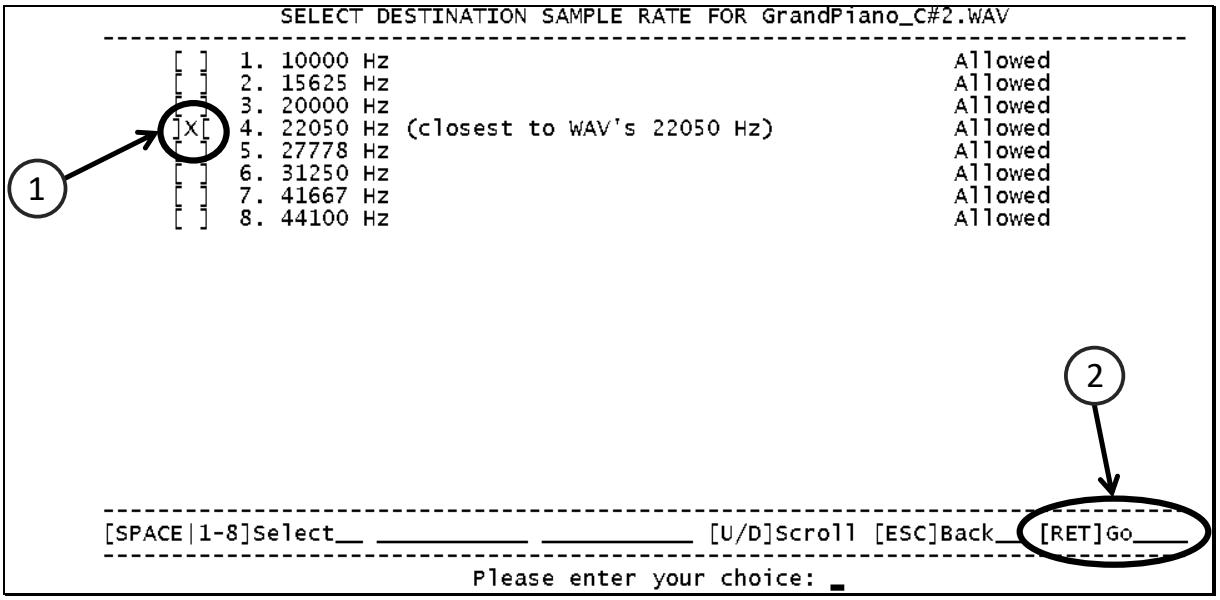
8) EMXP detects that the selected WAV file is a stereo WAV file. As a result we can choose between

- converting the WAV file to mono and send it to either the PRImary or to the SECondary voice of the selected key, resulting in a mono sample on the EMAX-I, and
- sending one of the stereo channels to the PRImary voice and sending the other stereo channel to the SECondary voice, resulting in a "stereo" sample on the EMAX-I

In our example we will preserve the stereo nature of the sample, so we select item number 3 and we press ENTER. *If the WAV file would not have been stereo, only menu items 1 and 2 would have been available.*



9) The EMAX-I sampler only supports a limited number of sample rates, while the selected WAV file can have any sample rate. EMXP is now asking to which sample rate the WAV file should be converted. It indicates the EMAX-I sample rate which is closest to the WAV file's sample rate (here it's exactly the same: 22050 Hz). Since up-sampling the WAV file does not make a lot of sense, and down-sampling would result in loss of quality, we decide to go for the proposed sample rate of 22050 Hz by selecting item 4 and pressing ENTER. *The overview also indicates that all sample rates are allowed. If the available RAM memory in the EMAX-I would be limited, the highest sample rates would probably be disabled in this overview.*



10) EMXP is uploading the sample now. This process can not be interrupted.

```
                              UPLOADING EMAX SAMPLE
-------------------------------------------------------------------------------

              EMXP is uploading PRI and SEC samples from WAV file

                                GrandPiano_C#2.WAV

                                  Please wait...









-------------------------------------------------------------------------------
                                   PLEASE WAIT
-------------------------------------------------------------------------------
           |||||||||||||||||||||||
```

11) When the upload of the sample is finished, EMXP displays a message confirming that the sample has been successfully sent to the EMAX-I. We press any key to leave this screen.

```
                              PROCESS COMPLETED
-------------------------------------------------------------------------------

       PRI and SEC samples have been uploaded to key C#2 from WAV file
                            GrandPiano_C#2.WAV
                         Press any key to continue.









-------------------------------------------------------------------------------
                              [Any key]: Continue
-------------------------------------------------------------------------------
                                 Press a key...:
```

12) Let's press ESCAPE now for a few times, until we are back in the menu shown below. We will upload another WAV file now. For the sake of the example, this WAV file will replace one of the stereo channels of the GrandPiano_C#2 sample that we have uploaded in the previous steps. We select menu function 1 to get an overview of the WAV files.

```
                              WAV FORMAT MENU
-------------------------------------------------------------------------------

        1.  Manage   WAV Files

        2.  Basic    WAV-to-Sampler Conversion (automatic)

        3.  Advanced WAV-to-Sampler Conversion (EMXP CONSTRUCTION)



-------------------------------------------------------------------------------
            [1]...[3]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

13) In the WAV file overview screen, we select the WAV file named "MARIMBA C3" by selecting item 30 (after having scrolled down a few lines, by means of the UP and DOWN or PAGE UP and PAGE DOWN keys). Please note that this WAV file contains a mono sound. We don't press ENTER but rather press the "U" shortcut key to directly start the sample upload via RS422 to the EMAX-I. *We may have to press the "+" key for scrolling through the available shortcut keys on the bottom line of the screen to discover that this shortcut key is indeed available. Note that there are also shortcut keys for uploading via MIDI and for uploading to the EMAX-II and to the Emulator-II.*

```
                              WAV FILE OVERVIEW
-------------------------------------------------------------------------------
                 CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Wav\
-------------------------------------------------------------------------------
  [ ]  26. HARP HMC C4                    761 ms     44100 Hz   mono
  [ ]  27. HARP HMC C6                    1004 ms    44100 Hz   mono
  [ ]  28. HARP HMC F4                    777 ms     44100 Hz   mono
  [ ]  29. HARP HMC F5                    1214 ms    44100 Hz   mono
  ]X[  30. MARIMBA C3                     1512 ms    44100 Hz   mono
  [ ]  31. MARIMBA C4                     1362 ms    44100 Hz   mono
  [ ]  32. MARIMBA C5                     886 ms     44100 Hz   mono
  [ ]  33. MARIMBA C6                     568 ms     44100 Hz   mono
  [ ]  34. MARIMBA E3                     1589 ms    44100 Hz   mono
  [ ]  35. MARIMBA E4                     983 ms     44100 Hz   mono
  [ ]  36. MARIMBA E6                     545 ms     44100 Hz   mono
  [ ]  37. MARIMBA G3                     1475 ms    44100 Hz   mono
  [ ]  38. MARIMBA G4                     914 ms     44100 Hz   mono
  [ ]  39. MARIMBA G5                     500 ms     44100 Hz   mono
  [ ]  40. MARIMBA G6                     455 ms     44100 Hz   mono
  [ ]  41. PULSE                          5 ms       44100 Hz   mono
-------------------------------------------------------------------------------
[SPACE][01-56]Select [A]All_____ [M]Range____ [ARW]Scroll [ESC]Back__ [RET]Go____
[+]More [C]Convert_ [L]Play_____ [U]RS Emax_ [W]MidiEmax [V]RS Emax2 [X]MidiEmx2
-------------------------------------------------------------------------------
                          Please enter your choice:
```

1

2

14) EMXP is now connecting to the EMAX-I and retrieving information about all voices and all samples of the *current preset's* keys. Since we have uploaded a stereo sample to the current preset in the previous steps, the key overview displayed by EMXP shows this sample in the PRI and SEC voice of key C#2. Before uploading the mono sample, we will first have a look at the details of the voices/samples currently assigned to key C#2. We select item 29 and press the "short cut key" "D" on the keyboard.

```
                    SELECT DESTINATION KEY FOR MARIMBA C3.WAV
 ------------------------------------------------------------------------------
   [ ]  20. E1                 PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  21. F1                 PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  22. F#1                PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  23. G1                 PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  24. G#1                PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  25. A1                 PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  26. A#1                PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  27. B1                 PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  28. C2                 PRI: ---    ----- smpl SEC: ---    ----- smpl
  ]X[  29. C#2                 PRI: V00    66080 smpl SEC: V01    66080 smpl
   [ ]  30. D2                 PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  31. D#2                PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  32. E2                 PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  33. F2                 PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  34. F#2                PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  35. G2                 PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  36. G#2                PRI: ---    ----- smpl SEC: ---    ----- smpl
   [ ]  37. A2                 PRI: ---    ----- smpl SEC: ---    ----- smpl
 ------------------------------------------------------------------------------
 [SPACE|01-88]Select                  [U/D]Scroll [ESC]Back__ [RET]Go____
 ____________________ [D]Details_ [L]Play____ [R]Refresh_ ___________ ___________
 ------------------------------------------------------------------------------
                          Please enter your choice:
```

1

2

15) EMXP is displaying now some details and parameters about the connected sampler, the current preset and the selected key area. By using the UP and DOWN keys or PAGE UP and PAGE DOWN keys we can scroll through the information. We scroll down to get more details about the voices and samples.

```
                    DETAILS KEY C#2 OF PRESET P00 Untitled
 ------------------------------------------------------------------------------
 ..CURRENT SAMPLER STATUS.........................................................

 Sampler:                   EMAX-I
 Operating System:          Emax Plus rev4.0
 Available sample memory:   392127      sample points
 Available preset memory:   27889       bytes
 Current Preset:            P00  Untitled
 Current MIDI Channel:      CH000

 ..KEY AREA DETAILS...............................................................

 Selected Key:     C#2      (part of key area C#2 -> C#2)
 Stereo Voice:     Assumed
 Crossfade:        Off
 Primary Voice on top of Secondary Voice

 ..VOICE AND SAMPLE DETAILS : See Next Page.......................................


 ------------------------------------------------------------------------------
       [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
 ------------------------------------------------------------------------------
                          Please enter your choice:
```

16) After having scrolled down, we can see that both voices of the key have been assigned a sample having the same size. This is normal because we have uploaded a stereo WAV file to the PRI and SEC voice. On the previous screen EMXP was also indicating that it "assumes" that the samples on the PRI and SEC voice form a stereo sample. We leave the details screen by pressing ESCAPE.

```
                    DETAILS KEY C#2 OF PRESET P00 Untitled
-------------------------------------------------------------------------------
..PRIMARY VOICE DETAILS.........................................................

Voice:            V00
Original Key:     C#2       Output Channel:  1 -> 8
Sample Rate:      22050 Hz  Sample Length:   66080       (sample points)
Sustain Loop:     Off       from 2           to 66036    (sample points)
Release Loop:     Off       from 2           to 66036    (sample points)
Backward Play:    Off

..SECONDARY VOICE DETAILS.......................................................

Voice:            V01
Original Key:     C#2       Output Channel:  1 -> 8
Sample Rate:      22050 Hz  Sample Length:   66080       (sample points)
Sustain Loop:     Off       from 2           to 66036    (sample points)
Release Loop:     Off       from 2           to 66036    (sample points)
Backward Play:    Off


-------------------------------------------------------------------------------
       [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                           Please enter your choice:
```

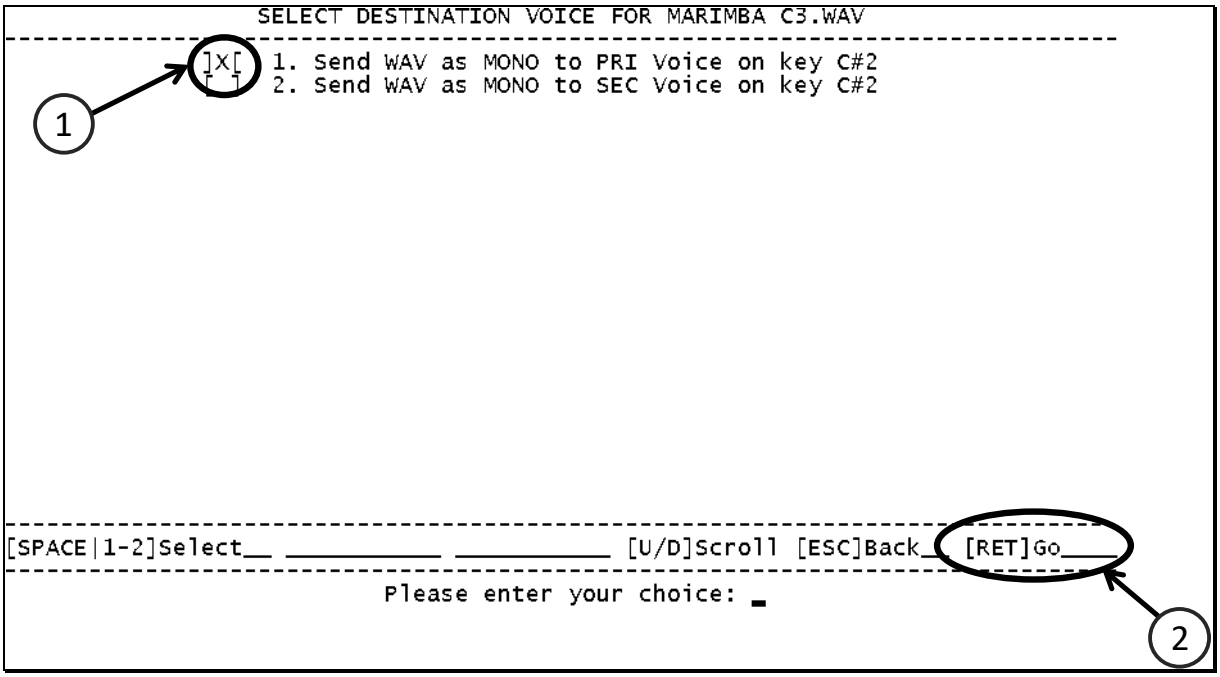
17) We are back in the key overview screen of the current preset. Let's upload the mono WAV file to the same key (C#2) by selecting item 29 and pressing ENTER.

```
                    SELECT DESTINATION KEY FOR MARIMBA C3.WAV
-------------------------------------------------------------------------------
  [ ]  20. E1   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  21. F1   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  22. F#1  [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  23. G1   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  24. G#1  [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  25. A1   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  26. A#1  [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  27. B1   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  28. C2   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [x]  29. C#2  [redacted]  PRI: V00   66080 smpl SEC: V01   66080 smpl
  [ ]  30. D2   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  31. D#2  [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  32. E2   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  33. F2   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  34. F#2  [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  35. G2   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  36. G#2  [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
  [ ]  37. A2   [redacted]  PRI: ---   ----- smpl SEC: ---   ----- smpl
-------------------------------------------------------------------------------
[SPACE|01-88]Select ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
_________________ [D]Details_ [L]Play____ [R]Refresh_ ___________ ___________
-------------------------------------------------------------------------------
                           Please enter your choice:
```

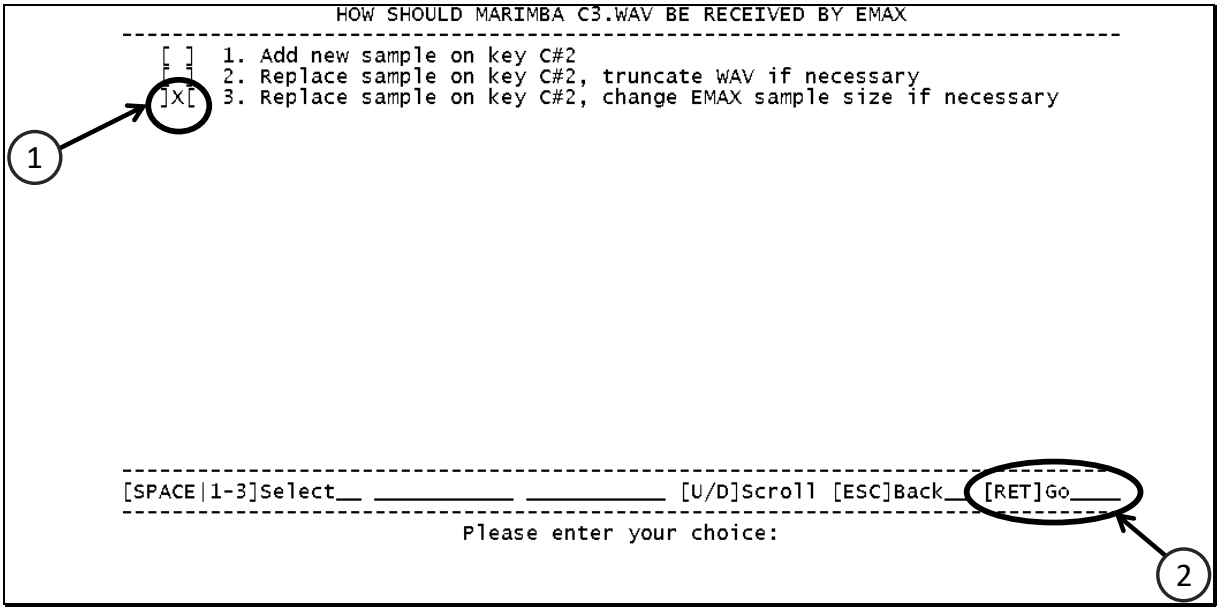
1

2

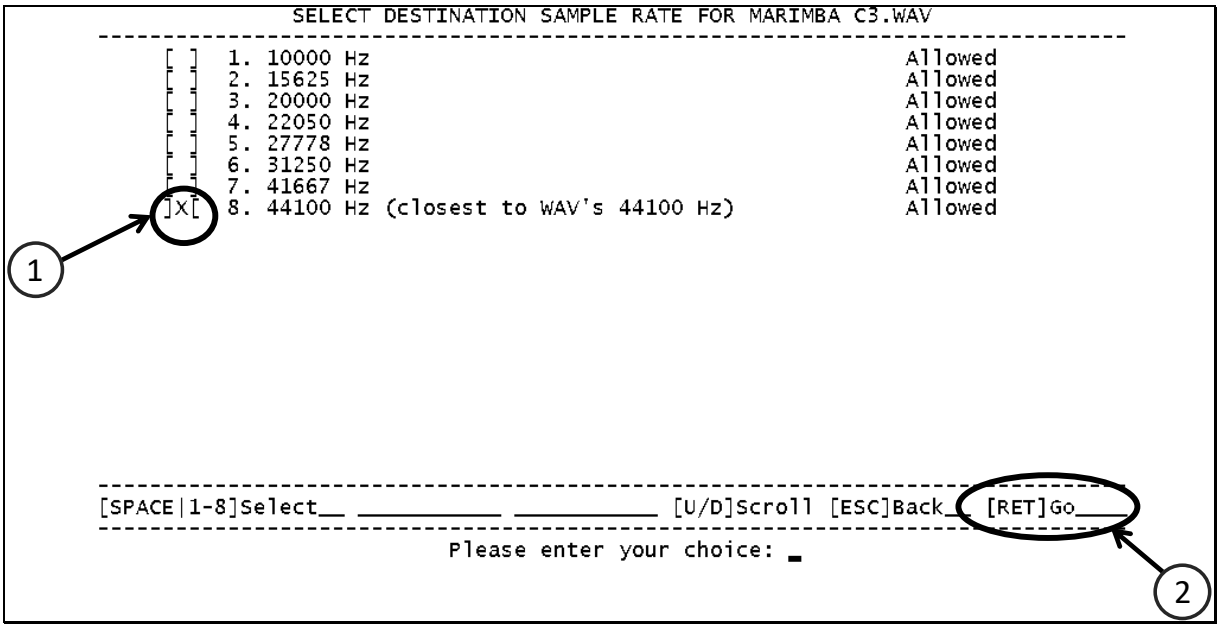
18) EMXP detects that the selected WAV file is a mono WAV file, so it offers only the possibility to send the WAV file to either the PRImary or the SECondary voice of the selected key, resulting in a mono sample on the EMAX-I. We will replace the current stereo sample's PRI voice, so we select item 1 and press ENTER.



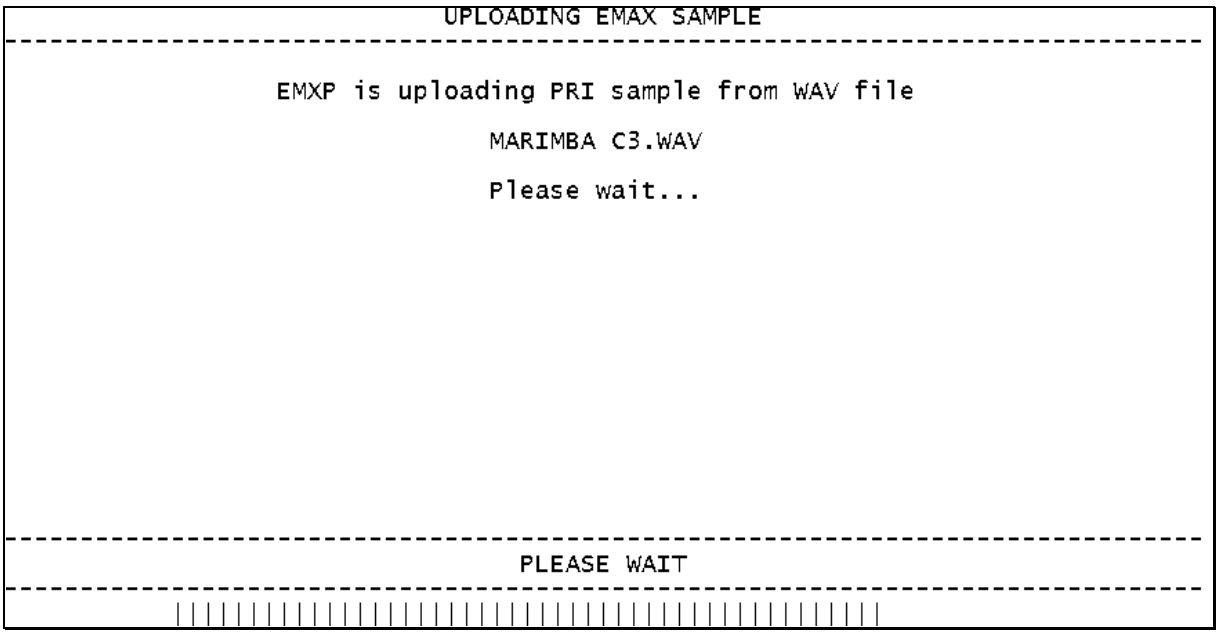
19) EMXP detects that there is already a sample assigned to the PRI voice of key C#2 in the current preset. We have to choose now whether we would like to *add* the WAV file to the EMAX-I sampler' memory or *rather replace* the current sample in the EMAX-I sampler's memory. No matter what we choose, in our example the result will be the same. But in other examples, the sample of the select key may have been assigned to other keys and presets as well. If we would *add* the WAV file, only the selected key would get a new sample assigned; the other keys would still keep the current sample.
Since the new WAV file is *larger* then the currently assigned sample, we have to decide how EMXP should deal with the difference in size when *replacing* the current sample on key C#2. We don't want to truncate the WAV file to make it fit into the currently allocated sample's memory, so we instruct EMXP to increase the current sample's memory size in order to make sure that the whole WAV file can be uploaded. We select item 3 and press ENTER.



20) Again EMXP is asking for the target sample rate. This time the WAV file has a sample rate of 44100 Hz. Since there's sufficient RAM memory available in the EMAX-I sampler, EMXP allows for preserving this sample rate, so we select item 8 and press ENTER.



21) EMXP is uploading the sample now. This process can not be interrupted.



22) When the upload of the sample is finished, EMXP displays a message confirming that the sample has been successfully sent to the EMAX-I. We press any key to leave this screen.

```
                              PROCESS COMPLETED
-------------------------------------------------------------------------------

            PRI sample has been uploaded to key C#2 from WAV file
                                MARIMBA C3.WAV
                          Press any key to continue.

-------------------------------------------------------------------------------
                              [Any key]: Continue
-------------------------------------------------------------------------------
                                Press a key...: _
```

23) Let's now check what samples are assigned to the C#2 key of the current preset in the EMAX-I sampler's memory after all steps we have taken so far. We press ESCAPE until we are back on the main menu screen, and we select menu function 1.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-------------------------------------------------------------------------------

                    1.  Manage EMU Files and Disks

                    2.  Manage AKAI S1000 Files and Disks

                    3.  Manage WAV Files

                    4.  Manage SOUNDFONT2 Files

                    5.  Manage EMXP CONSTRUCTION Files

                    6.  Preferences

-------------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

24) The computer is connected to an EMAX-I sampler, so we select menu function 1 in the next screen.

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------

              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files

-----------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                          Please enter a menu option:
```

25) In the EMAX-I sampler menu screen, we select menu function 9. This function's primary objective is to download banks or samples from the EMAX-I, but we can also use it to have a look at the voices and samples of the current preset in the EMAX-I sampler's memory.

```
                              EMAX-I SAMPLER MENU
-----------------------------------------------------------------------------

            1.  Manage EMAX-I Bank Files
            2.  Manage EMAX-I EMX Files
            3.  Manage EMAX-I Operating System Files
            4.  Manage EMAX-I Hard Disk Images
            5.  Manage EMAX-I Hard Disks
            6.  Manage EMAX-I Floppy Disk Images
            7.  Manage EMAX-I HxC Floppy Disk Images
            8.  Manage other EMAX-I Files and Disks
            9.  Receive Banks or Samples from EMAX-I via RS422/MIDI
-----------------------------------------------------------------------------
            [1]...[9]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                          Please enter a menu option:
```

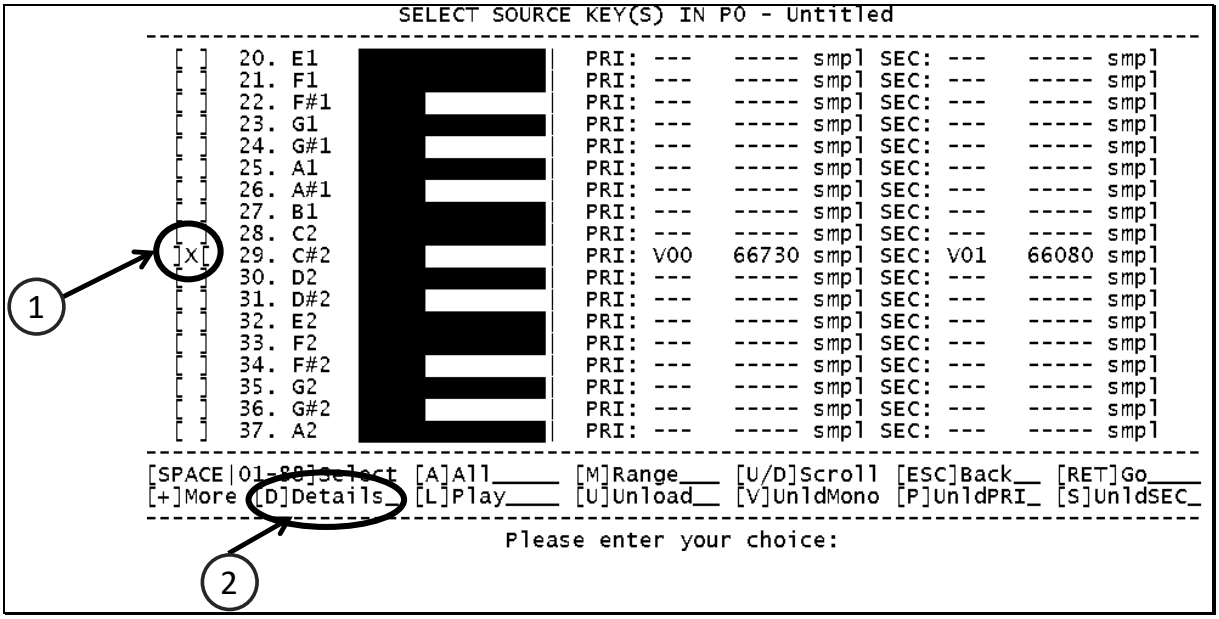
26) On the next screen we select menu function 4.

```
                    EMAX-I RS422 OR MIDI DOWNLOAD MENU
-------------------------------------------------------------------------------

        1.  Receive Bank File from EMAX-I via RS422

        2.  Receive EMX File from EMAX-I via RS422

        3.  Receive SoundDesigner for EMAX File from EMAX-I via RS422

        4.  Receive Samples from EMAX-I via RS422

        5.  Receive Samples from EMAX-I via MIDI

-------------------------------------------------------------------------------
            [1]...[5]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                         Please enter a menu option:
```

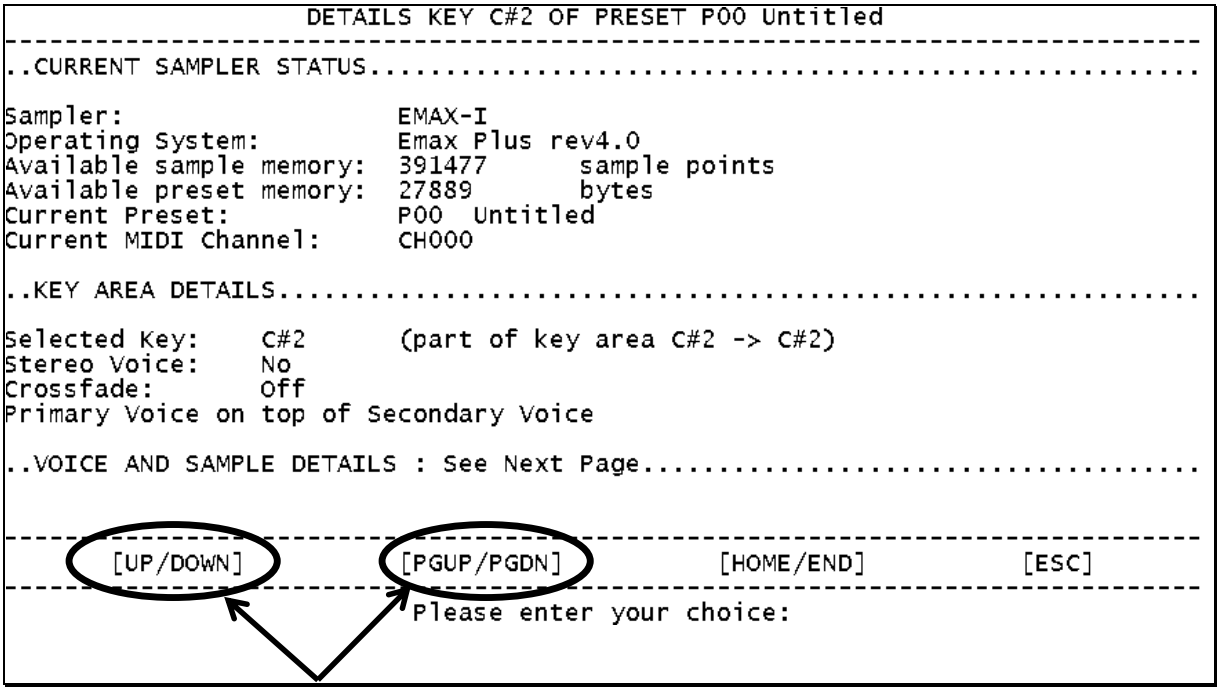
27) EMXP is now connecting to the EMAX-I and retrieving information about all voices and all samples of the *current preset's* keys.

```
                    COMMUNICATING WITH EMAX VIA RS422
-------------------------------------------------------------------------------

    EMXP is retrieving current preset information from the EMAX via RS422

                        This can take a few seconds

                              Please wait...

-------------------------------------------------------------------------------
                                PLEASE WAIT
-------------------------------------------------------------------------------
          |||||||||||
```

28) In the key overview we can see the result of the two sample upload processes that we have done in the previous steps (after scrolling down a few lines): key C#2 has two *different* samples assigned to its PRI and SEC voice. Let's have a look at the detailed parameters of key C#2 by selecting pressing "D".



29) EMXP is displaying some details and parameters about the connected sampler, the current preset and the selected key area. By using the UP and DOWN keys or PAGE UP and PAGE DOWN keys we can scroll through the information. On the current screen, we can see that EMXP does *not* assume anymore that there is a stereo voice assigned to the key. We scroll down to get more details about the voices and samples.



30) After having scrolled down, we can see that both voices of the key have been assigned a sample having a *different* size and a *different* sample rate now. This is normal because first we have uploaded a stereo 22050 Hz WAV file to the PRI and SEC voice having a size of 66080 sample points per channel, and then we have replaced the PRI voice's sample by a larger mono 44100 Hz WAV file having a size of 66730 sample points. Note that the loop settings are identical in both voices and that they are based on the smallest sample. We leave the details screen by pressing ESCAPE.

```
                    DETAILS KEY C#2 OF PRESET P00 Untitled
-------------------------------------------------------------------------------
..PRIMARY VOICE DETAILS.......................................................

Voice:           V00
Original Key:    C#2       Output Channel:  1 -> 8
Sample Rate:     44100 Hz  Sample Length:   66730       (sample points)
Sustain Loop:    Off       from 2           to 66036    (sample points)
Release Loop:    Off       from 2           to 66036    (sample points)
Backward Play:   Off

..SECONDARY VOICE DETAILS.....................................................

Voice:           V01
Original Key:    C#2       Output Channel:  1 -> 8
Sample Rate:     22050 Hz  Sample Length:   66080       (sample points)
Sustain Loop:    Off       from 2           to 66036    (sample points)
Release Loop:    Off       from 2           to 66036    (sample points)
Backward Play:   Off


-------------------------------------------------------------------------------
       [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                          Please enter your choice:
```

31) This is the end of guided tour #13. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #14: SENDING A WAV-FILE TO AN SP-12 WITH MIDI

In this guided tour, we will upload a mono WAV file to an SP-12 by means of a MIDI communication link. The WAV-file will be loaded into sound User 1. It is assumed that the SP-12 has sufficient available memory for loading the selected WAV-file.

1) After having started EMXP the main menu will appear. Since we want to send a WAV file to a sampler, we select menu function 3 by pressing "3" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
--------------------------------------------------------------------------

                    1.  Manage EMU Files and Disks

                    2.  Manage AKAI S1000 Files and Disks

                    3.  Manage WAV Files

                    4.  Manage SOUNDFONT2 Files

                    5.  Manage EMXP CONSTRUCTION Files

                    6.  Preferences




--------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
--------------------------------------------------------------------------
                         Please enter a menu option:
```

2) In the next menu, we select menu function 1 to get an overview of all WAV files.

```
                              WAV FORMAT MENU
--------------------------------------------------------------------------

        1.  Manage   WAV Files

        2.  Basic    WAV-to-Sampler Conversion (automatic)

        3.  Advanced WAV-to-Sampler Conversion (EMXP CONSTRUCTION)









--------------------------------------------------------------------------
            [1]...[3]: menu option                 ESC: Go back
--------------------------------------------------------------------------
                         Please enter a menu option:
```

3) EMXP displays an overview of all WAV files in the current folder. The folder is fine, so we don't have to change the folder by means of selecting item 1 labelled "-- CHANGE FOLDER --". We will send the WAV file named "BassDrum #1". We select item 10 either by moving the cursor ("] [") with the UP and DOWN keys to item 10 and pressing the SPACE bar, or simply by entering "10" on the keyboard. Then we press ENTER to launch the WAV file menu. *As an alternative and faster method to upload samples to the SP-12, it's also possible to press the "S" shortcut key (which may only appear on the bottom line or the screen after pressing the "+" key...)*

```
                                WAV FILE OVERVIEW
-------------------------------------------------------------------------------
              CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Wav\
-------------------------------------------------------------------------------
  [ ]  01. -- CHANGE FOLDER --
  [ ]  02. B3 HAM1 A2                      2347 ms    31000 Hz   mono
  [ ]  03. B3 HAM1 B1                      1771 ms    31000 Hz   mono
  [ ]  04. B3 HAM1 B1L                     1771 ms    31000 Hz   mono   Lps
  [ ]  05. B3 HAM1 C5                      2219 ms    31000 Hz   mono
  [ ]  06. B3 HAM1 D4                      2248 ms    31000 Hz   mono
  [ ]  07. B3 HAM1 G1                      2025 ms    31000 Hz   mono
  [ ]  08. B3 HAM1 G3                      1569 ms    31000 Hz   mono
  [ ]  09. B3 HAM1 G5                      1327 ms    31000 Hz   mono
  ]X[  10. BassDrum #1                     313 ms     44100 Hz   mono
  [ ]  11. GrandPiano_C#2                  2994 ms    22050 Hz   stereo
  [ ]  12. GrandPiano_C3                   2431 ms    22050 Hz   stereo
  [ ]  13. GrandPiano_C5                   1928 ms    30000 Hz   stereo
  [ ]  14. GrandPiano_C6                   1583 ms    36000 Hz   stereo
  [ ]  15. GrandPiano_E4                   2870 ms    30000 Hz   stereo
  [ ]  16. HARP A#3                        1367 ms    44100 Hz   mono
-------------------------------------------------------------------------------
[SPACE|01-58]Select [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back__ [RET]Go___
[+]More ___________ [E]RS EII__ [S]MidiSP12 [N]SortName [T]SortTime [Z]SortSize
-------------------------------------------------------------------------------
                          Please enter your choice:
```

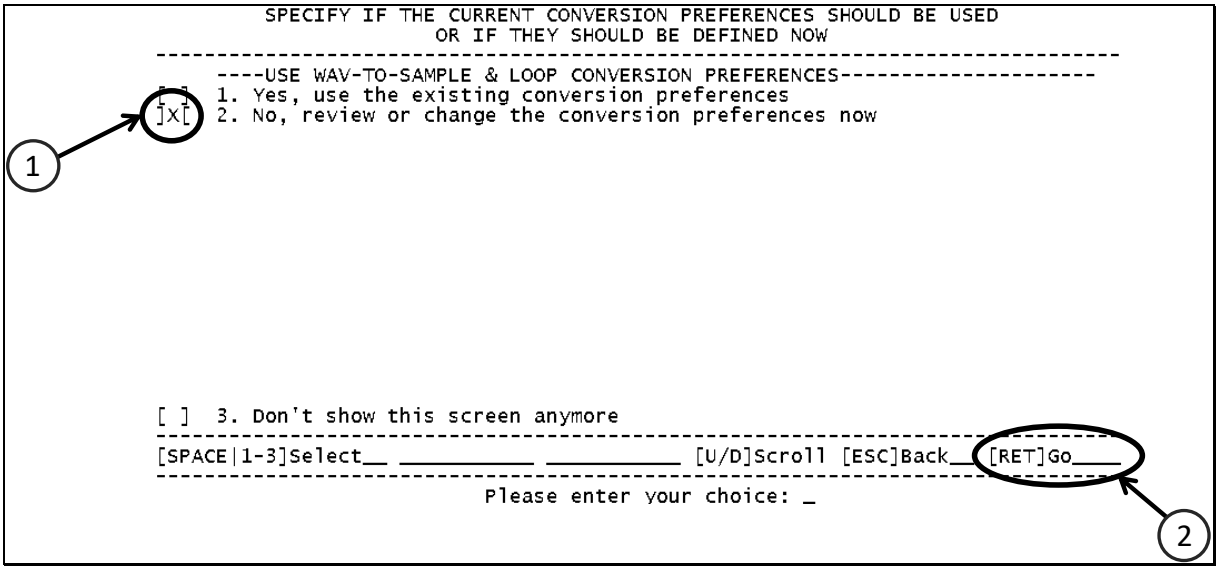
1

2

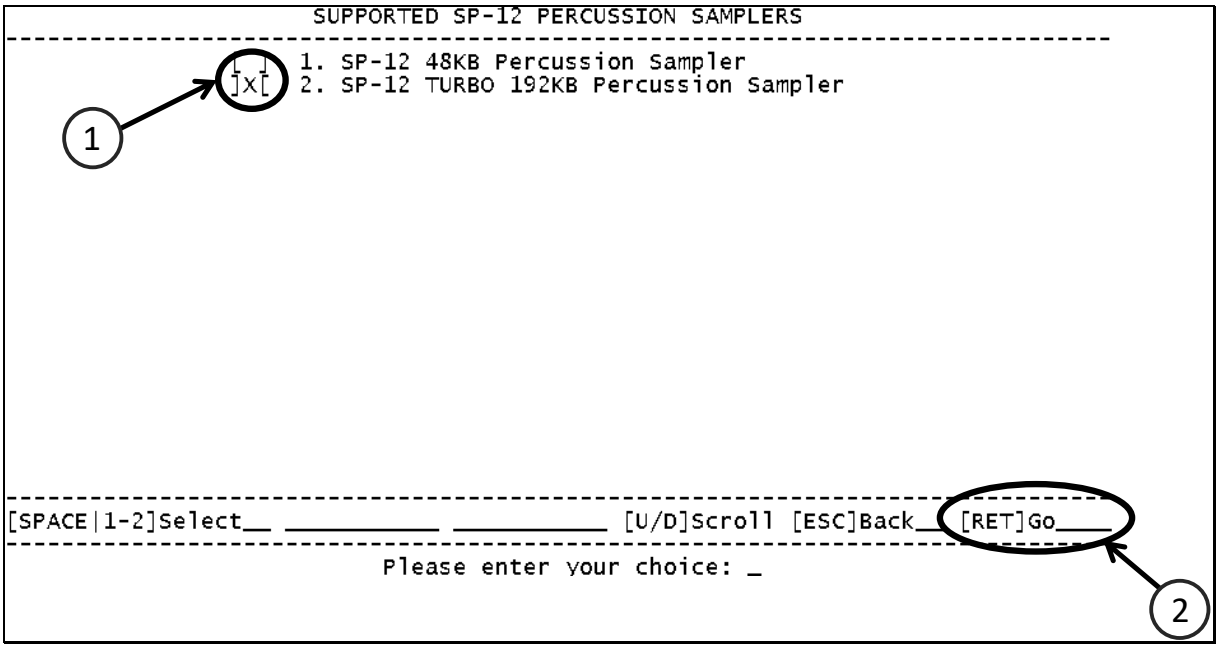
4) In the WAV file menu, we select menu function 4 to send the selected WAV file to the SP-12.

```
                              WAV FILE MENU
-------------------------------------------------------------------------------

          1.  Convert selected WAV File(s) to Other Sampler Format

          2.  Send WAV File(s) to EMAX via RS422/MIDI

          3.  Send WAV File(s) to EMULATOR-II via RS422

          4.  Send WAV File(s) to SP-12 via MIDI

          5.  Play selected WAV File(s)




-------------------------------------------------------------------------------
            [1]...[5]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                        Please enter a menu option:
```

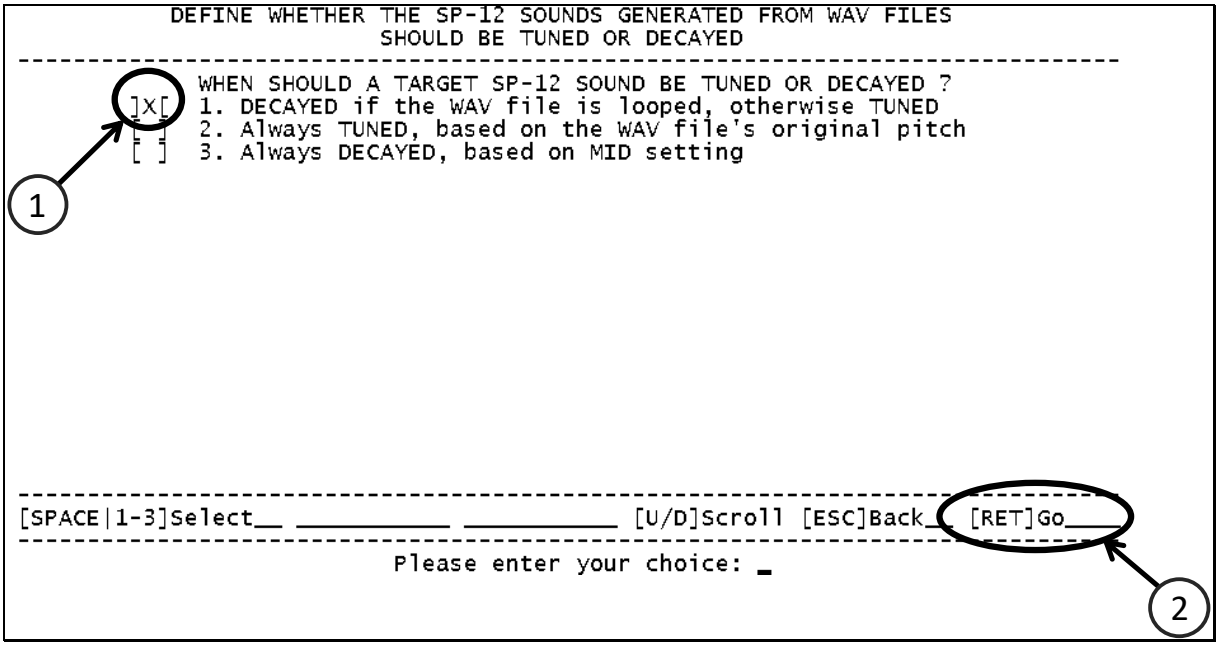
5) EMXP needs to know a few parameters that should be used for converting the selected WAV-file to an SP-12 sound. If the selected WAV-file would contain loops, we will be able to specify whether loops should be converted, and if multiple loops would exist in the WAV-file we can select which of them should be converted. Our WAV-file does not have any loops though. The only additional information EMXP needs to know is the total memory size of the SP-12 and whether the uploaded sound should be tuned or decayed. We have the choice to either use the preferences for these parameters, or to review and change these parameters right now. Let's go through them one by one. We select the second item and press ENTER.



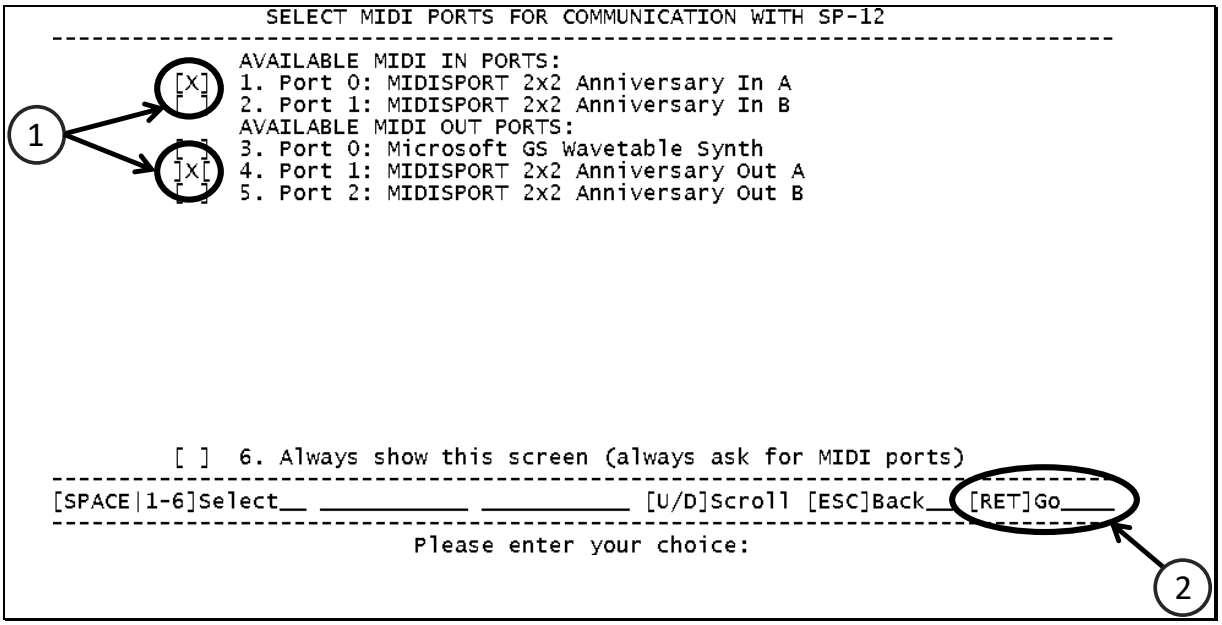
6) The first parameter EMXP is asking is the total memory size of the SP-12 which is connected to the computer. Our SP-12 is a Turbo version, so we select the second item and press ENTER. The memory size is only used to validate whether the WAV-file will fit in the SP-12 memory (if all memory would be available).



7) Each sound in the SP-12 is either *tuned* or *decayed*. If a sound is *tuned*, its decay is determined by the Default Decay setting in the SP-12. Although EMXP will always load a WAV-file without actually changing its pitch, we still have the possibility to make the sound *tuned* instead of *decayed*. The default setting is *tuned unless the WAV-file is looped and loops should be converted.* Since our WAV-file is not looped, option 1 and 2 result in the same setting (tuned sound), which is fine. We selected the first item and press ENTER.



8) EMXP is now requesting the MIDI IN port to which the MIDI OUT port of the SP-12 is connected, and the MIDI OUT port to which the MIDI IN port of the SP-12 is connected. This is done only once (EMXP will remember these ports and will not ask for them anymore in the future, unless you select option 6). In our example we will use MIDI ports A of the Midisport MIDI interface. We select items 1 and 4 and press ENTER.



9) EMXP is ready now to upload the WAV-file to the SP-12. We have to invoke a "Load Sound#" instruction on the SP-12 in order to complete the process. Once we have activated the Cassette/Disk module on the SP-12 and selected function 3.6 (Load Sound#), we need to select the target sound on the SP-12. Any sound can be selected. In our example we will load the WAV-file to sound User 1. After pressing ENTER twice on the SP-12, EMXP will automatically start loading the WAV-file (it's listening to the MIDI IN port).

```
PLEASE ACTIVATE THE "LOAD SOUND#" FUNCTION ON THE SP-12
--------------------------------------------------------------------------------

                    Ready to upload WAV file BassDrum #1

          Please activate the Cassette/Disk module on the SP-12,
        press 3, 6 and hit any pad followed by pressing Enter twice.

       (be careful NOT to load ALL sounds [3->5->Enter] by accident !)

              Press ESCAPE to leave the Upload Sound function.



--------------------------------------------------------------------------------
                                  [ESC] Leave
--------------------------------------------------------------------------------
            Select "Load Sound#" on the SP-12 or press Escape...:
```

10) EMXP is now loading the WAV-file. This can take a while.

```
                              UPLOADING WAV FILE
--------------------------------------------------------------------------------

                         EMXP is uploading WAV file

                               BassDrum #1.wav

                               Please wait...



--------------------------------------------------------------------------------
                                  PLEASE WAIT
--------------------------------------------------------------------------------
           |||||||||||||||||||||||||||||||
```

11) Once the upload of the WAV-file has successfully been completed, a confirmation screen will be displayed in EMXP. We leave this screen by pressing ESCAPE.

```
                              PROCESS COMPLETED
-------------------------------------------------------------------------------

            The selected WAV file has been uploaded to the SP-12.
                         Press any key to continue.



-------------------------------------------------------------------------------
                             [Any key]: Continue
-------------------------------------------------------------------------------
                               Press a key...:
```

12) This is the end of guided tour #14. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #15: CONSTRUCTING AN EMAX-II BANK

In this guided tour, we will construct an EMAX-II bank file containing 2 presets, each containing a WAV file assigned to an area of multiple keys. One of the WAV files contains loops.

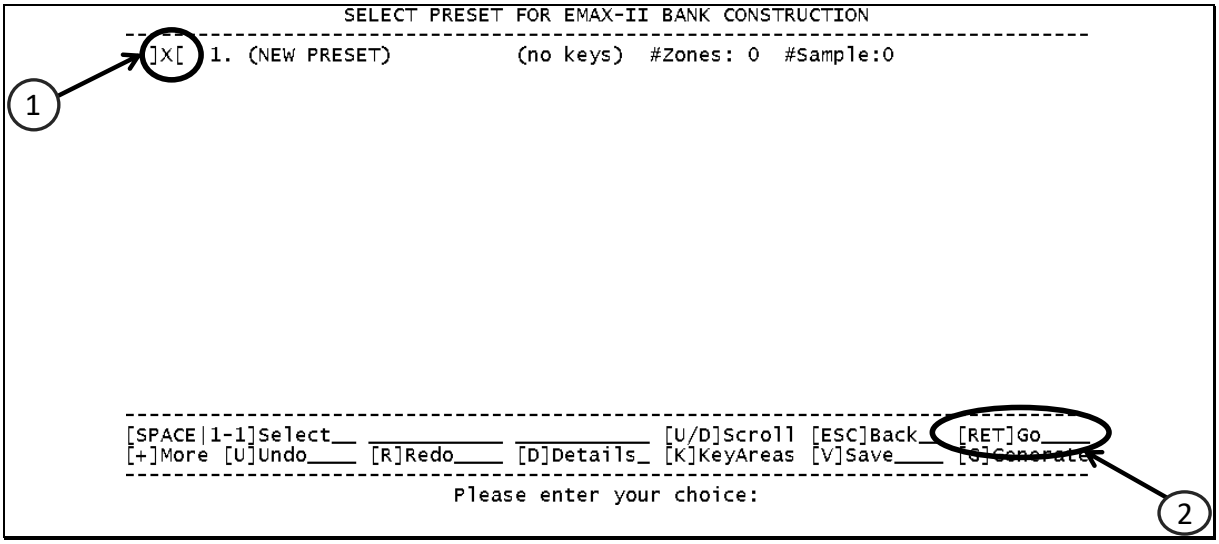
1) After having started EMXP the main menu will appear. Since we want to construct an EMAX-II bank file, we select menu function 5 by pressing "5" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-------------------------------------------------------------------------------

                    1.  Manage EMU Files and Disks

                    2.  Manage AKAI S1000 Files and Disks

                    3.  Manage WAV Files

                    4.  Manage SOUNDFONT2 Files

                    5.  Manage EMXP CONSTRUCTION Files

                    6.  Preferences

-------------------------------------------------------------------------------
            [1]...[6]: menu option                 ESC: Go back
-------------------------------------------------------------------------------
                         Please enter a menu option:
```

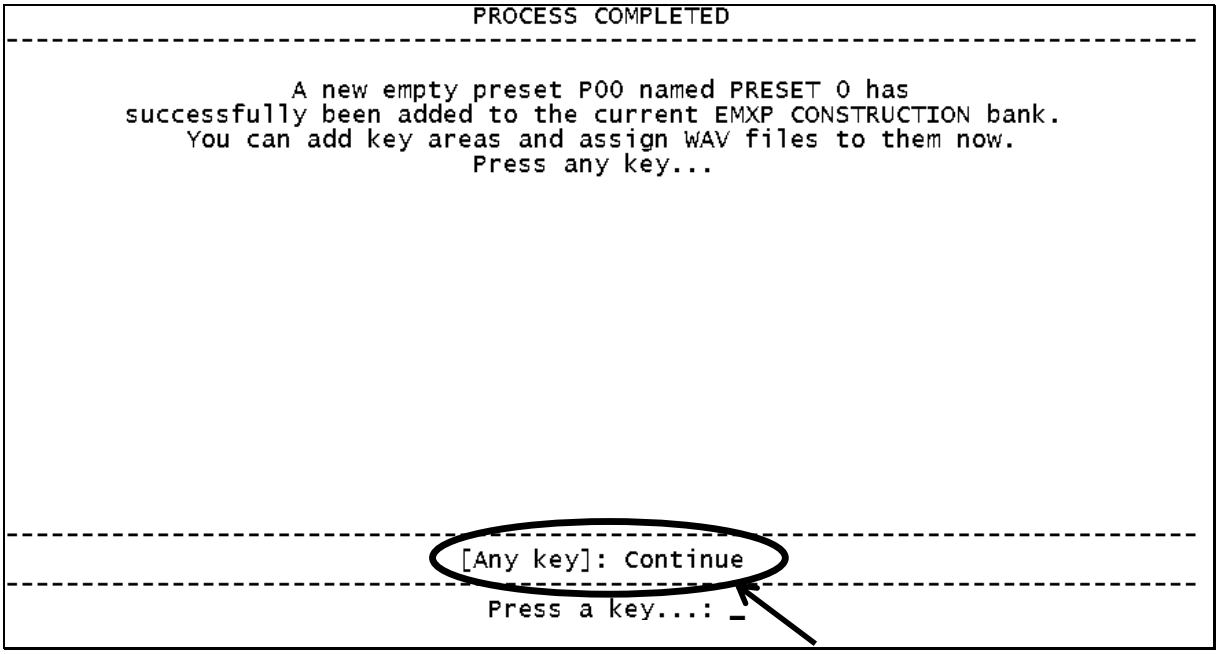
2) The following menu gives access to the different sampler types for which we can construct banks. We select menu function 2 since we will construct an EMAX-II bank. *It's always possible to change the target sampler while constructing the bank. EMXP will validate the construction against the chosen target sampler's limits at any time during the construction of the bank.*

```
                         EMXP CONSTRUCTION MAIN MENU
-------------------------------------------------------------------------------

            1.  Construct EMAX-I Bank from WAV Files

            2.  Construct EMAX-II Bank from WAV Files

            3.  Construct EMULATOR-I Bank from WAV Files

            4.  Construct EMULATOR-II Bank from WAV Files

            5.  Construct EMULATOR-III/X/ESI Bank from WAV Files

            6.  Construct SOUNDFONT2 Bank from WAV Files

            7.  Construct SP-12 Bank from WAV Files

            8.  Manage existing EMXP CONSTRUCTION Files

-------------------------------------------------------------------------------
            [1]...[8]: menu option                 ESC: Go back
-------------------------------------------------------------------------------
                         Please enter a menu option:
```

3) In the next screen, EMXP shows an overview of all presets in the construction bank. The bank is new, so there's no preset yet. We will add a preset by selecting the first item labelled "(NEW PRESET)". If the item hasn't been pre-selected yet by EMXP, we can select the item by moving the cursor ("] [") to that item with the UP and DOWN keys and pressing the SPACE bar, or by entering "1" on the keyboard. We press ENTER to complete the creation of the new preset.



4) EMXP confirms that a new preset has been created. By default this preset has been named "PRESET 0". Let's press any key to continue.



5) In the preset selection menu, we will first define some information regarding the *bank* before defining the contents of the *preset*. We select menu function 2 and we press ENTER. *The same can be achieved by pressing shortcut key "B" at any time in either the preset overview screen or in the key area overview screen.*

```
        EMXP CONSTRUCTION PRESET SELECTION FOR BANK CONSTRUCTION MENU
-------------------------------------------------------------------------------

              1.  Manage Key Areas / Assign WAV Files
              2.  Manage Bank Details
              3.  Manage Preset Details
              4.  Manage other Presets or Add/Copy/Remove Preset
              5.  Undo most recent Change
              6.  Redo most recent undone Change
              7.  Save Bank
              8.  Save Bank as...
              9.  Generate Bank in Target Sampler Format
-------------------------------------------------------------------------------
            [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                        Please enter a menu option:
```

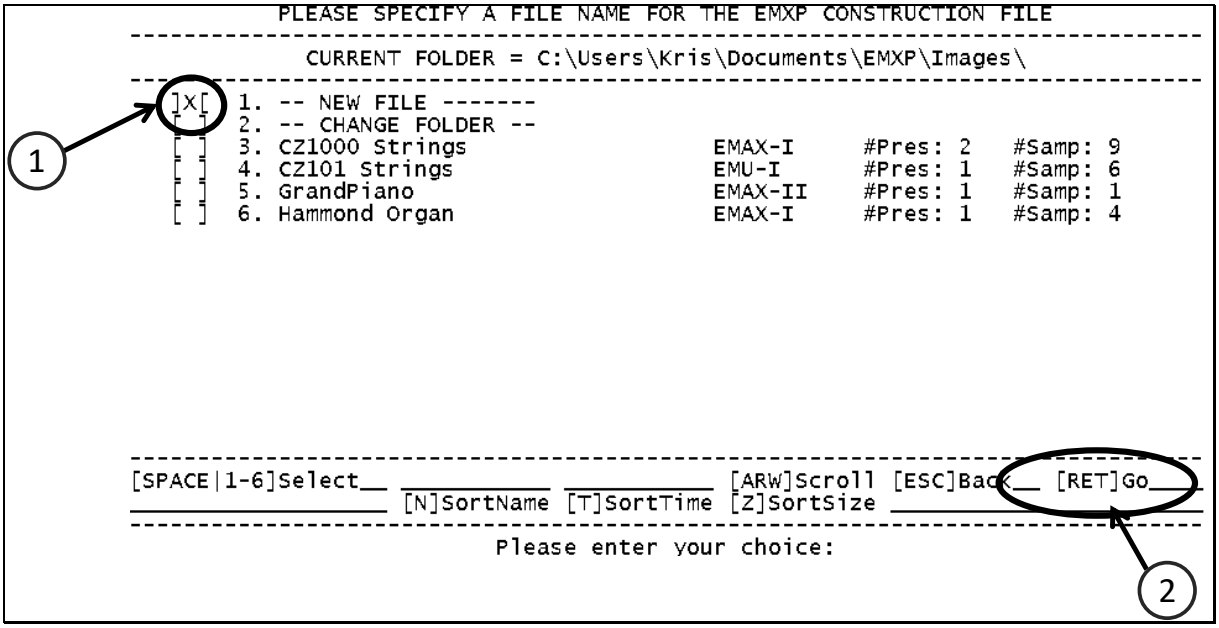
6) We can define different parameters which will be applicable for the whole bank/construction file. The construction file parameters that we will define now are (1) the name of the construction file, (2) the bank name and (3) how to deal with stereo WAV files. We select items 2, 3 and 7 either by entering "02", "03" and "07" on the keyboard, or by moving the cursor to items 2, 3 and 7 and pressing the SPACE bar on each item. After pressing ENTER, EMXP will successively launch the 3 screens in which we can define the 3 selected parameters.

```
                          CONSTRUCTION FILE SETTINGS
          ------------------------------------------------------------------------
          [ ]  01. Target Sampler Type                        EMAX-II
          [X]  02. Construction File Name
          [X]  03. Bank Name
          [ ]  04. Sampler Memory Size                        8192 KB
          [ ]  05. Lowest allowed Sample Rate                 44100 Hz
          [ ]  06. Highest allowed Sample Rate                44100 Hz
          ]X[  07. Stereo Sample Handling                     PRI & SEC or Mono
          [ ]  08. Original Key Range determined by           Not Applicable
          [ ]  09. Keyboard Layout                            Standard
          [ ]  10. Same WAV File is treated as same Sample    Yes

               Total EMAX-II sample size (#sample points)     0        (<4194304)
               Total number of generated EMAX-II samples      0        (<422)
               Sample size at min smpl rate & min #channels   0        (<4194304)
               Number of generated samples at min #channels   0        (<422)
               File Version                                   03.10.01
               Initially saved on                             (not saved yet)
               Last saved on                                  (not saved yet)
               Modified in memory on                          2020-06-26 18:11:36
          ------------------------------------------------------------------------
          [SPACE|01-10]Select [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ [RET]Go____
          ------------------------------------------------------------------------
                                  Please enter your choice:
```

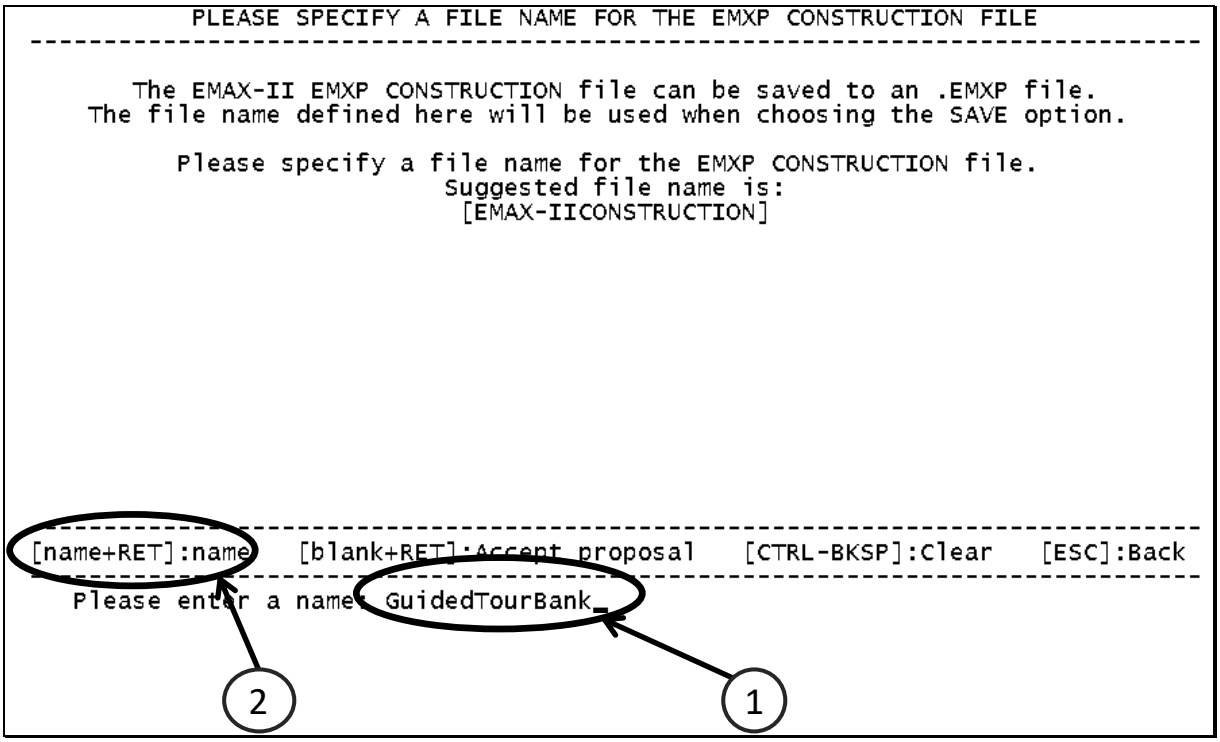
1

2

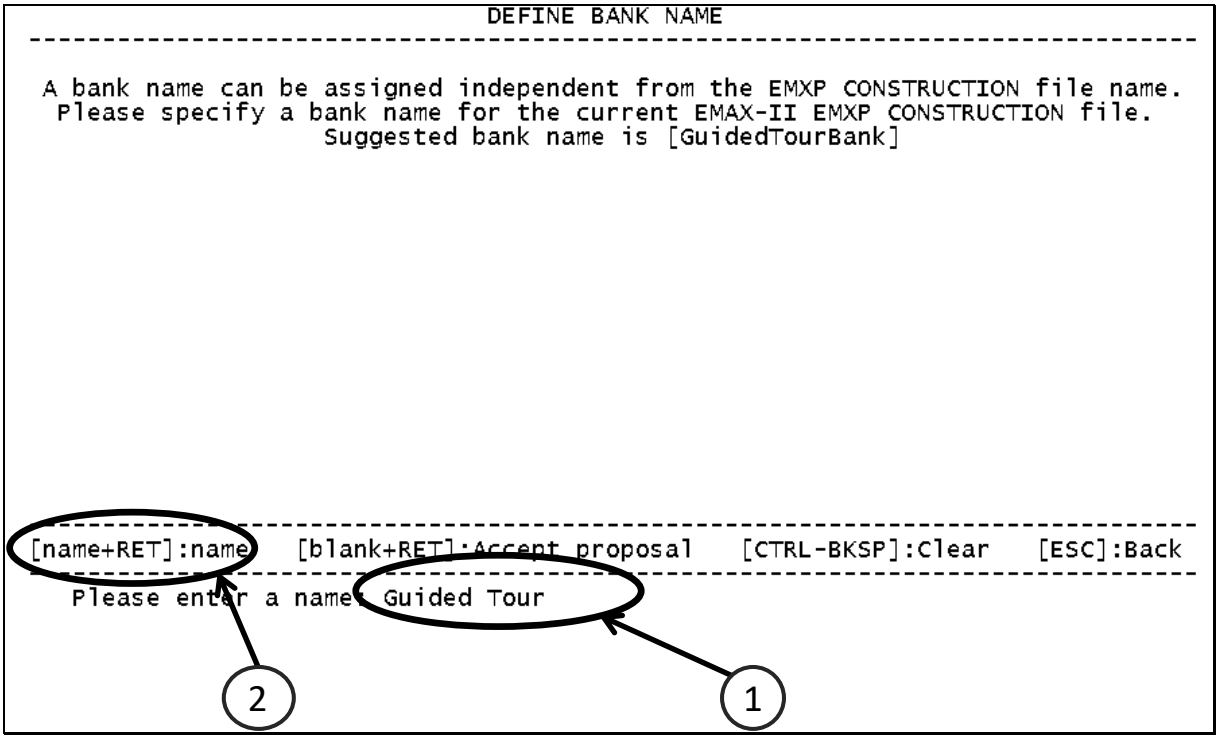
7) The first parameter that we will define is the file name of the construction file. This file name will be used whenever we select the "Save Bank" menu function later. If we wouldn't define the file name now, EMXP will ask for that name the first time we will save the file using the "Save Bank" menu function. EMXP has launched the File Manager. We select the first item labelled "-- NEW FILE --" and we press ENTER.



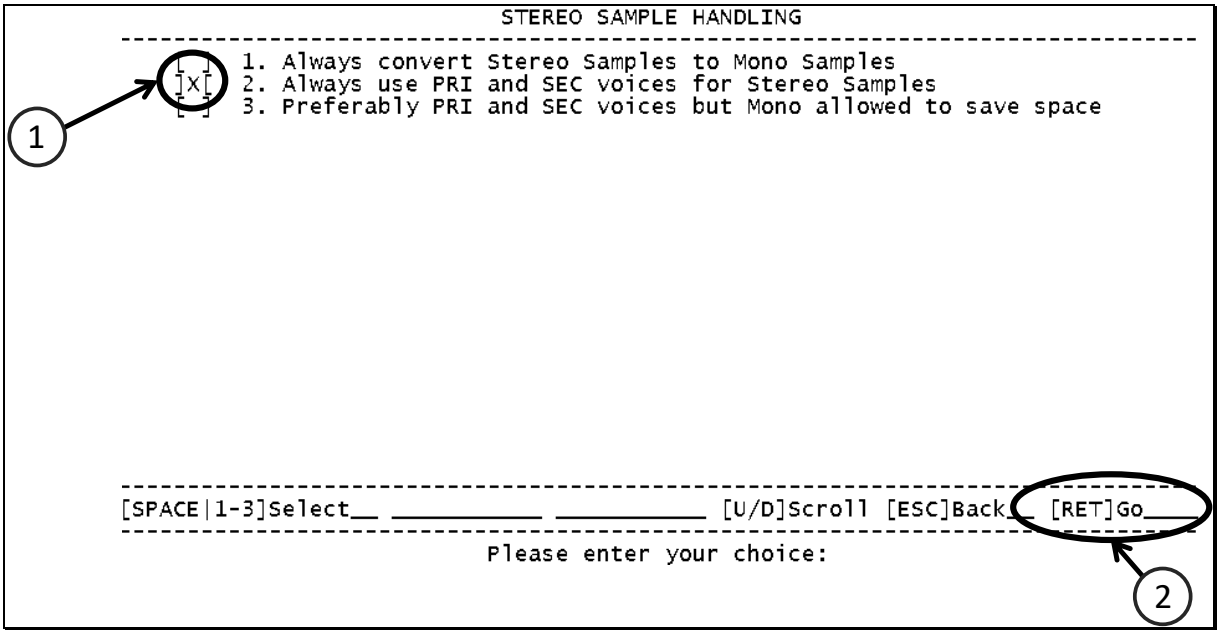
8) EMXP requests a new file name now. We don't agree with the proposed file name, so we press the CTRL-Backspace key combination to clear the bottom line of the screen, and we enter a new file name (here: "GuidedTourBank"). EMXP will accept the name once we have pressed ENTER.



9) The next parameter that we will define is the bank name. We are constructing an EMAX-II bank though. The EMAX-II automatically derives the bank name from the "current" preset's name and can't cope with an explicitly defined bank name. But we enter a bank name anyway - this is good practice, especially because we can still change the target sampler type to another sampler type which may be capable of dealing with explicitly defined bank names (e.g. SoundFont2). We enter the bank name "Guided Tour" and we press ENTER.



10) The last parameter that we will define is how EMXP should deal with stereo WAV files whenever we assign a stereo WAV file to a key area. By default EMXP always tries to preserve the stereo nature of stereo WAV files by assigning one channel to the PRI layer and the other channel to the SEC layer, unless this would result in a bank which doesn't fit in the specified EMAX-II memory. We want to make sure the stereo nature is preserved (as illustrated in step 32). If the bank would exceed the EMAX-II memory size, we expect EMXP to give a validation error instead of converting the stereo WAV files to mono samples. So we select item 2 instead of item 3 and press ENTER.



11) After having defined the parameters, EMXP displays the construction file parameters again - the screen has been refreshed with the information that we have just entered. We leave the screen by pressing ESCAPE and we return to the preset selection menu.

```
                          CONSTRUCTION FILE SETTINGS
-------------------------------------------------------------------------------
] [  01. Target Sampler Type                          EMAX-II
[ ]  02. Construction File Name                       GuidedTourBank
[ ]  03. Bank Name                                    Guided Tour
[ ]  04. Sampler Memory Size                          8192 KB
[ ]  05. Lowest allowed Sample Rate                   44100 Hz
[ ]  06. Highest allowed Sample Rate                  44100 Hz
[ ]  07. Stereo Sample Handling                       PRI & SEC Voice
[ ]  08. Original Key Range determined by             Not Applicable
[ ]  09. Keyboard Layout                              Standard
[ ]  10. Same WAV File is treated as same Sample      Yes

     Total EMAX-II sample size (#sample points)       0        (<4194304)
     Total number of generated EMAX-II samples        0        (<422)
     Sample size at min smpl rate & min #channels     0        (<4194304)
     Number of generated samples at min #channels     0        (<422)
     File Version                                     03.10.01
     Initially saved on                               (not saved yet)
     Last saved on                                    (not saved yet)
     Modified in memory on                            2020-06-26 18:23:38
-------------------------------------------------------------------------------
[SPACE|01-10]Select [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ _________
-------------------------------------------------------------------------------
                          Please enter your choice:
```

12) Let's save the construction file. We select menu function 7.

```
         EMXP CONSTRUCTION PRESET SELECTION FOR BANK CONSTRUCTION MENU
-------------------------------------------------------------------------------

             1.  Manage Key Areas / Assign WAV Files

             2.  Manage Bank Details

             3.  Manage Preset Details

             4.  Manage other Presets or Add/Copy/Remove Preset

             5.  Undo most recent Change

             6.  Redo most recent undone Change

             7.  Save Bank

             8.  Save Bank as...

             9.  Generate Bank in Target Sampler Format

-------------------------------------------------------------------------------
            [1]...[9]: menu option                 ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

13) EMXP saves the construction file in the folder we have previously selected. The file is saved using the file name we have previously defined as well. If we wouldn't have selected the file name and folder in steps 7 and 8, EMXP would now launch the File Manager and we would have to select the folder and file name. After having saved the file, EMXP shows following message:

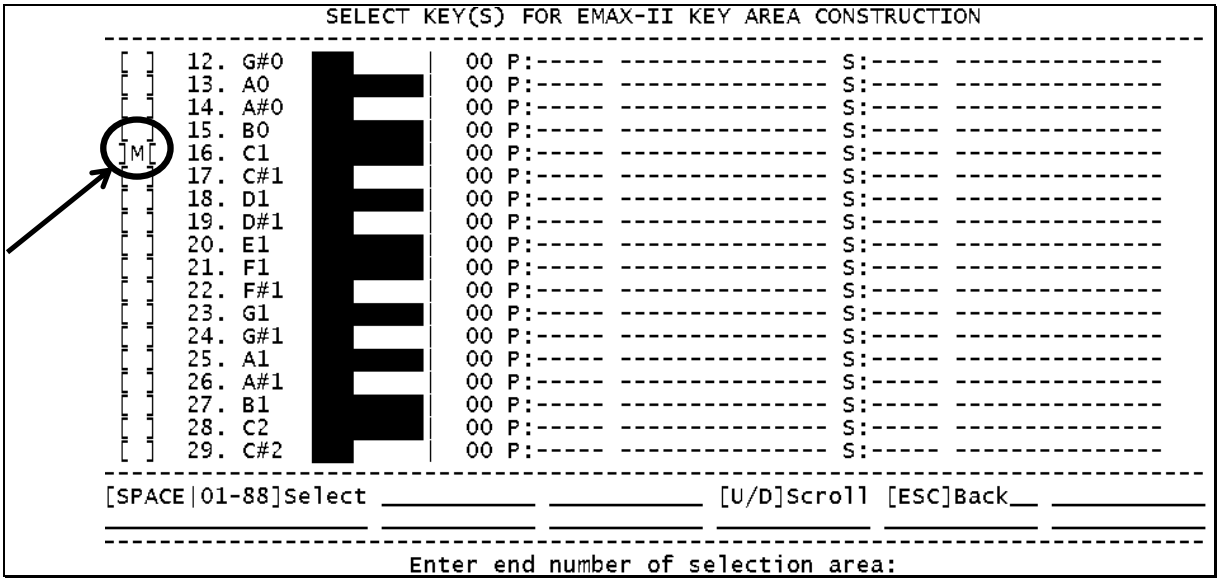
```
                              PROCESS COMPLETED
-------------------------------------------------------------------------------

     The constructed EMAX-II bank has been saved to EMXP CONSTRUCTION file
                              GuidedTourBank.EMXP

                          Press any key to continue.

-------------------------------------------------------------------------------
                              [Any key]: Continue
-------------------------------------------------------------------------------
                                Press a key...: _
```

14) It's time to add WAV files to the preset now. Let's select menu function 1.

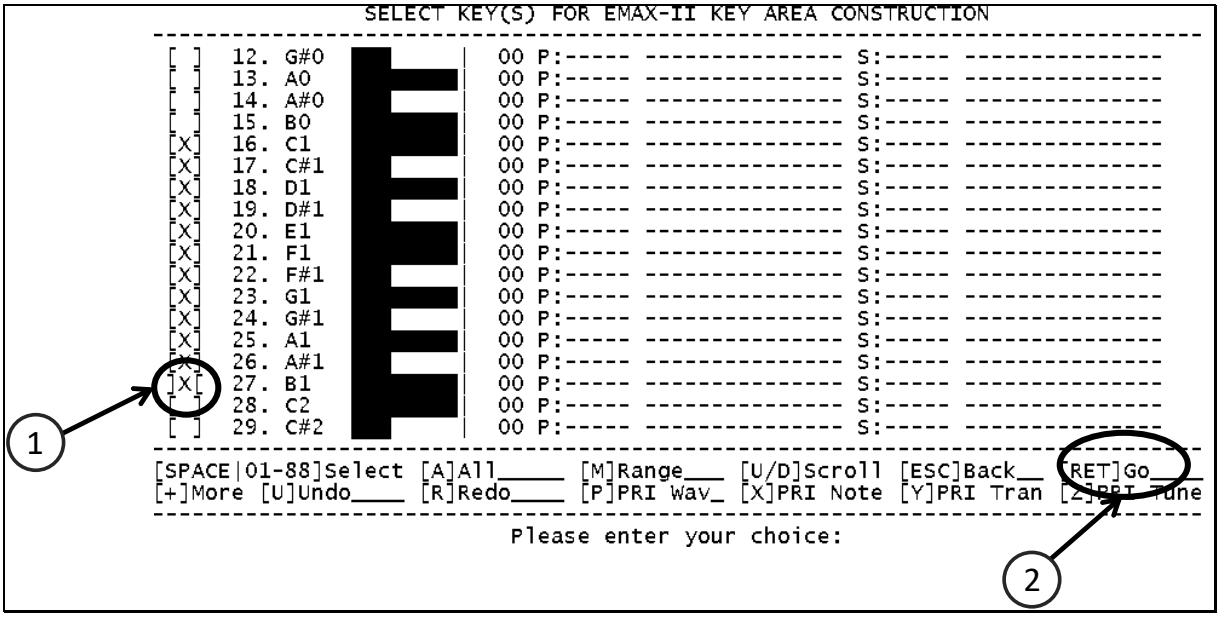
```
          EMXP CONSTRUCTION PRESET SELECTION FOR BANK CONSTRUCTION MENU
-------------------------------------------------------------------------------

               1.  Manage Key Areas / Assign WAV Files
               2.  Manage Bank Details
               3.  Manage Preset Details
               4.  Manage other Presets or Add/Copy/Remove Preset
               5.  Undo most recent Change
               6.  Redo most recent undone Change
               7.  Save Bank
               8.  Save Bank as...
               9.  Generate Bank in Target Sampler Format

-------------------------------------------------------------------------------
             [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                          Please enter a menu option:
```

15) EMXP displays an overview of all keys available in the EMAX-II current preset. For each key, the overview shows which WAV file has been assigned to the PRImary voice and to the SECondary voice, as well as the original notes that will be used for these voices. Since we didn't assign any WAV file yet, the overview is still empty. We will assign a WAV file to the key area from C1 to B1. We scroll down until we can see keys C1 till B1 on the screen. To select this key area, there are a few options:

- Enter all item numbers starting with "16", then "17", ... till "27" on the keyboard
- Move the cursor ("] [") with the UP and DOWN keys to all items from 16 till 27 and press the SPACE bar for each item
- Select the whole key area in 2 simple steps - this is illustrated below. The first step is to "mark" the start of the key area by entering "M", followed by moving the cursor to item 4 and pressing the SPACE bar.



16) To complete the selection of the key area, let's move the cursor to item 27 and press the SPACE bar. The whole key area is selected now (see "[X]" selectors in front of each item). To assign a WAV file to this key area, we press ENTER. *A faster method for assigning WAV files and defining parameters like original note will be illustrated in step 31.*



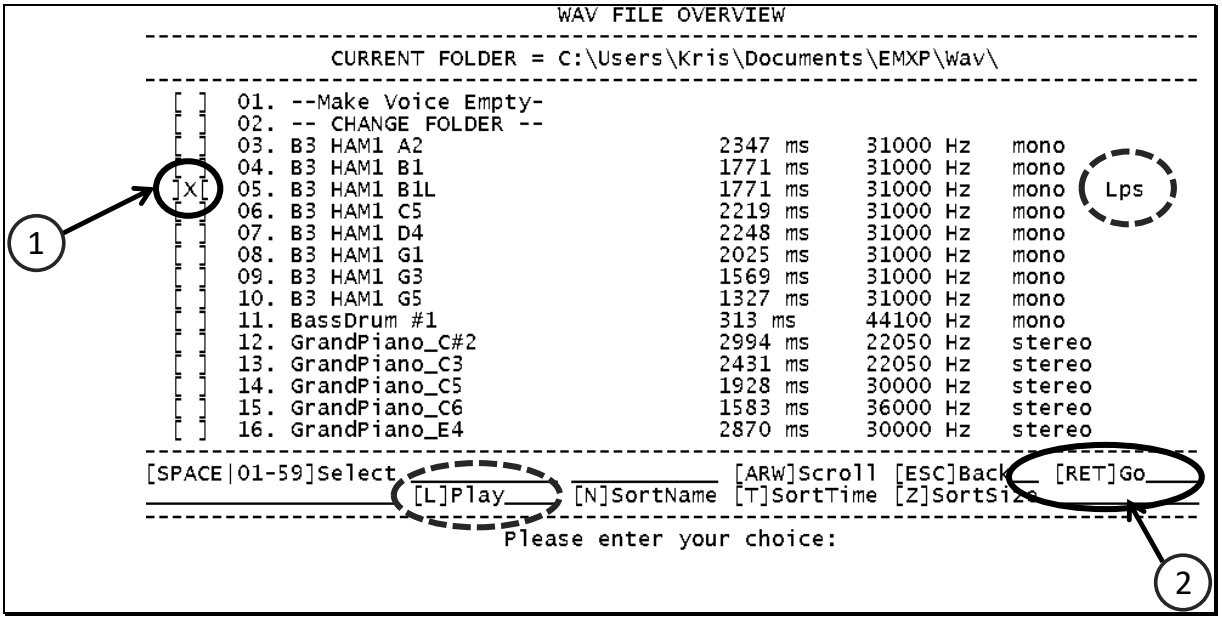
17) In the key selection menu, we select menu function 1.

```
        EMXP CONSTRUCTION KEY SELECTION FOR KEY AREA CONSTRUCTION MENU
-----------------------------------------------------------------------------
              1.  Assign WAV Files and other Key Area Parameters
              2.  Manage Bank Details
              3.  Manage Preset Details
              4.  Manage other Key Areas
              5.  Undo most recent Change
              6.  Redo most recent undone Change
              7.  Save Bank
              8.  Save Bank as...
              9.  Generate Bank in Target Sampler Format
-----------------------------------------------------------------------------
            [1]...[9]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

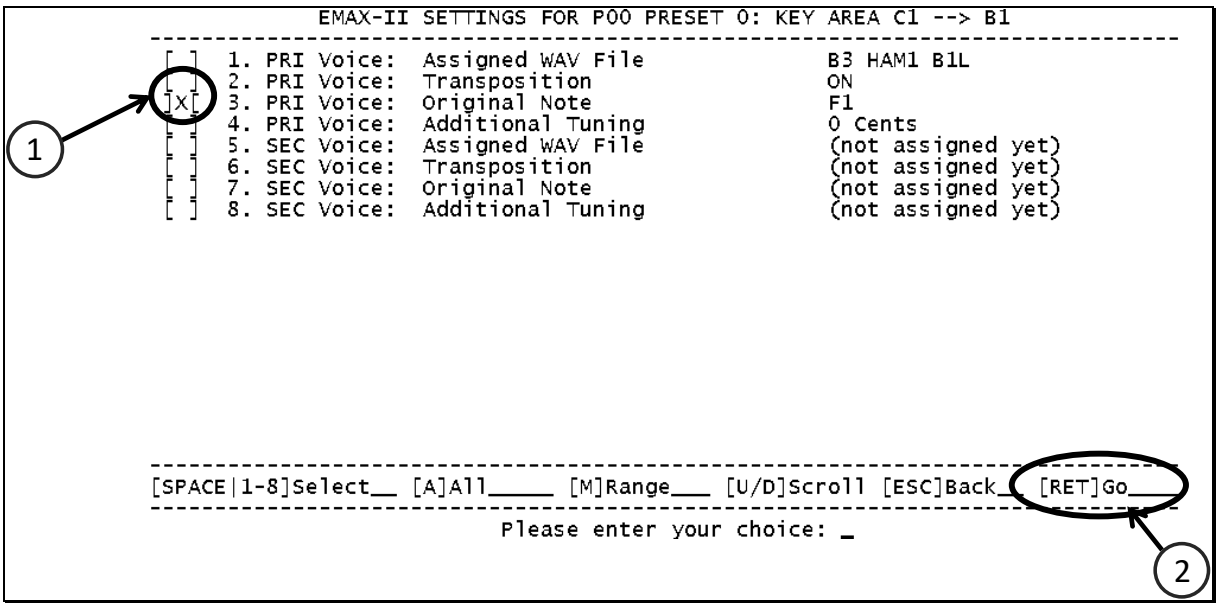
18) EMXP displays a screen now in which we can assign WAV files to both the PRI and the SEC voice. We will assign a mono WAV file to the PRI voice only, so we select item 1 and we press ENTER. *The same could have been achieved by entering the shortcut key "P" on the key overview screen in step 16, as will be illustrated in step 31.*

```
                    EMAX-II SETTINGS FOR P00 PRESET 0: KEY AREA C1 --> B1
-----------------------------------------------------------------------------
 ]X[  1. PRI Voice:  Assigned WAV File              (not assigned yet)
 [ ]  2. PRI Voice:  Transposition                  (not assigned yet)
 [ ]  3. PRI Voice:  Original Note                  (not assigned yet)
 [ ]  4. PRI Voice:  Additional Tuning              (not assigned yet)
 [ ]  5. SEC Voice:  Assigned WAV File              (not assigned yet)
 [ ]  6. SEC Voice:  Transposition                  (not assigned yet)
 [ ]  7. SEC Voice:  Original Note                  (not assigned yet)
 [ ]  8. SEC Voice:  Additional Tuning              (not assigned yet)

-----------------------------------------------------------------------------
[SPACE|1-8]Select__ [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ [RET]Go____
-----------------------------------------------------------------------------
                          Please enter your choice:
```

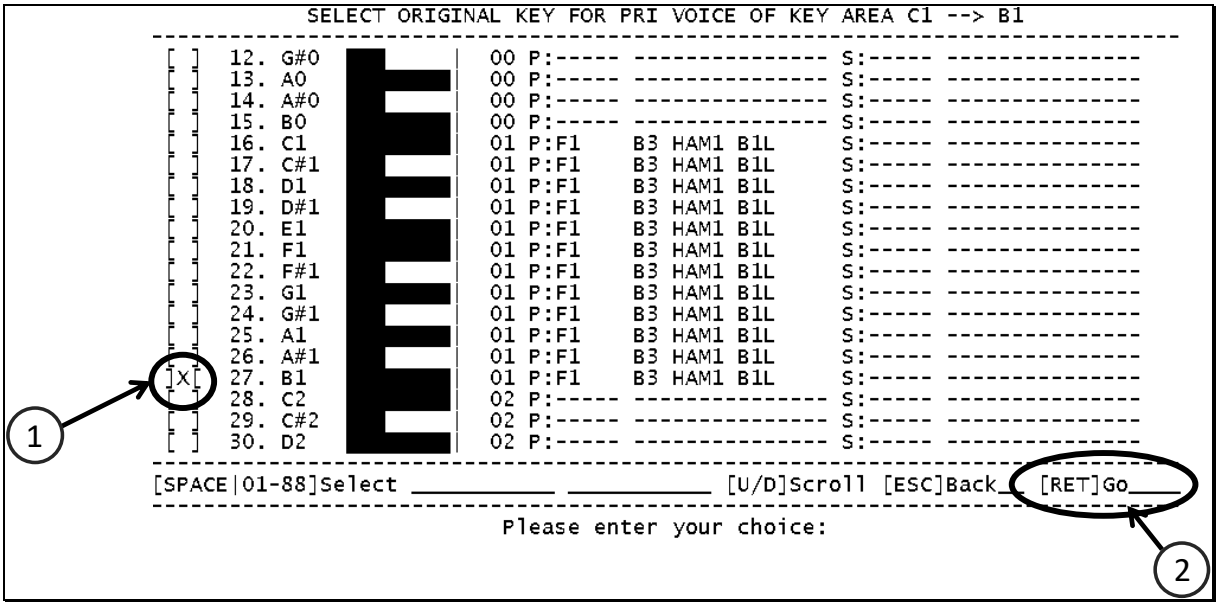
19) The File Manager is launched now and we can select the WAV file that should be assigned to the selected keys. *We can listen to a WAV file by selecting one and pressing "L"*. We select WAV file "B3 HAM1 B1L" in the WAV file overview and we press ENTER. Note that this WAV file contains some loops (the "Lps" flag at the right indicates that *multiple loops* have been defined in the WAV file). *We can also navigate to another folder by selecting item 2. Alternatively we can decide NOT to assign any WAV file to the keys by selecting item 1 labelled "--Make Voice Empty--". This method can also be applied if we would already have assigned a WAV file but want to undo this assignment...*



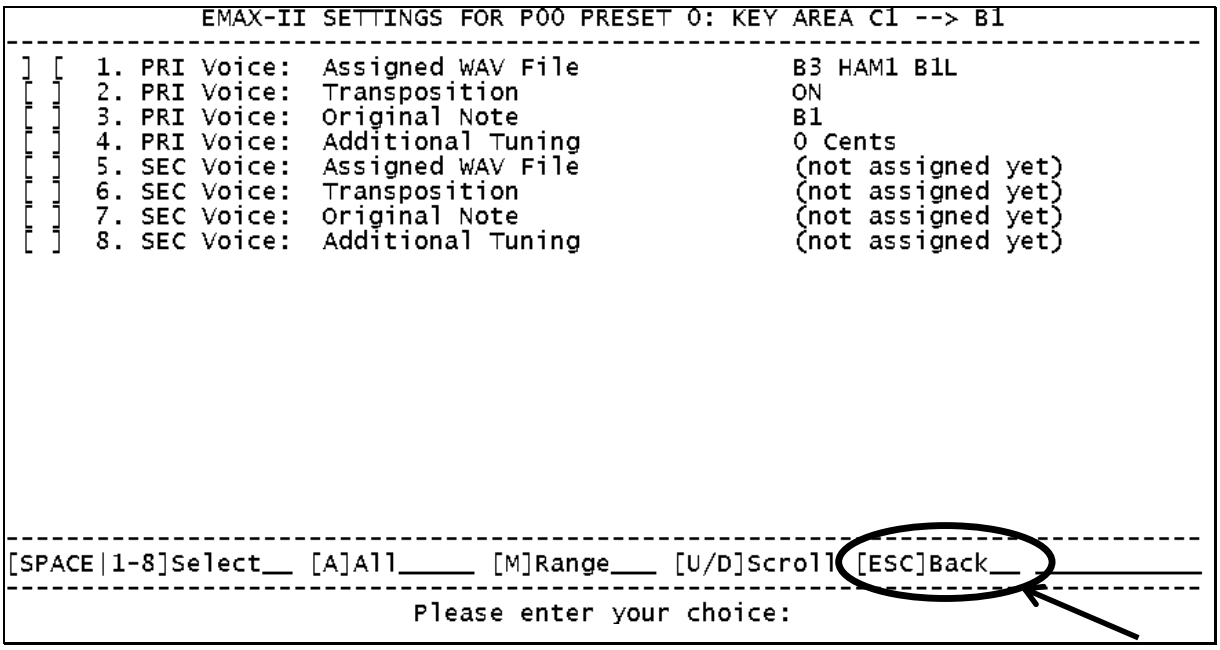
20) We are back on the key area settings screen now - EMXP has updated the screen with the WAV file we have just selected. A default value for the original note (here: F1) and the voice tuning (here: 0 cents) has been assigned as well. By default the transposition is enabled (ON). Since the WAV file has been sampled with pitch B1, we have to change the original note from F1 to B1. Let's select item 3 and press ENTER. . *The same could have been achieved by entering the shortcut key "X" on the key overview screen in step 16.*



21) EMXP displays the EMAX-II preset key overview, in which we can select the original note . Let's move the cursor to item 27 which corresponds to key B1, and press ENTER. *For some target samplers, like the EMAX-I or the Emulator-II, not all keys will be selectable in this overview. EMXP takes into account the transposition constraints of these samplers and disables any key which is out of the transposition range. The EMAX-II does not have any transposition constraints, so all keys can be used as a candidate original note in our example.*



22) EMXP updates the key area settings screen with the new value for the original note. Let's leave this screen now by pressing ESCAPE.



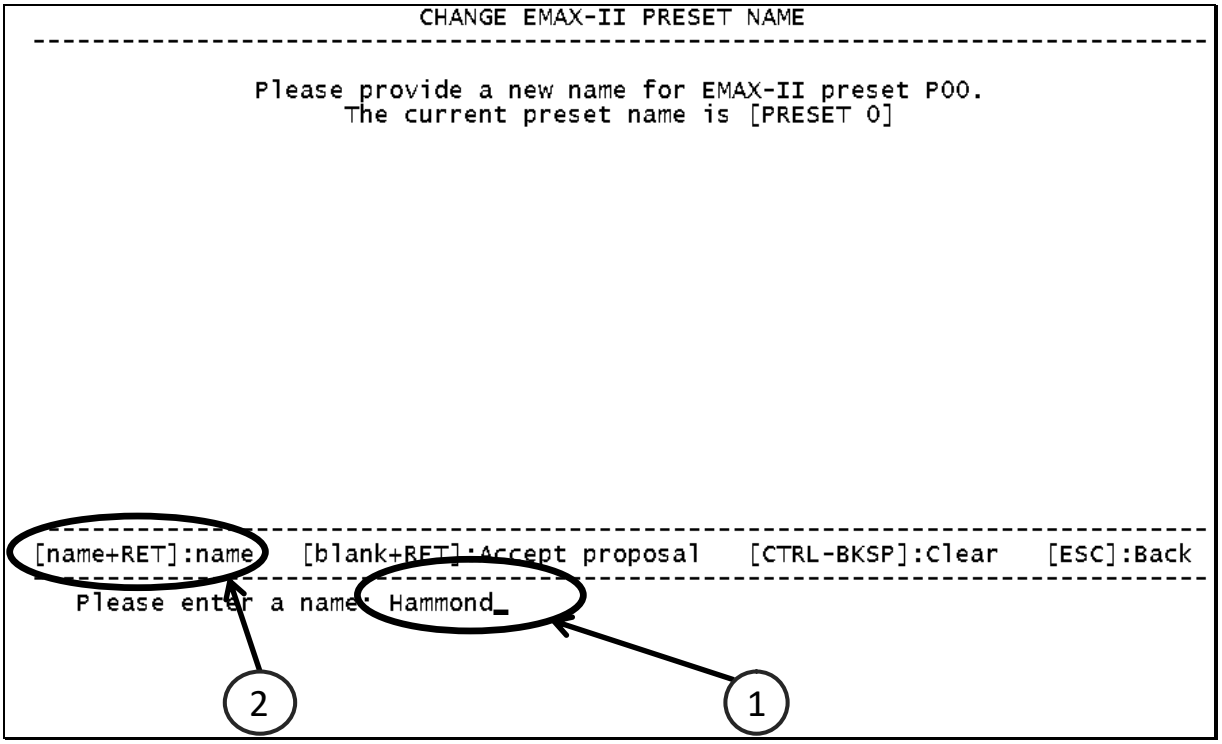
23) Let's also replace the current preset's default name ("PRESET 0") with a more meaningful name. In the key selection menu, we select menu function 3. *The same can be achieved by pressing shortcut key "P" at any time in either the preset overview screen or in the key area overview screen.*

```
        EMXP CONSTRUCTION KEY SELECTION FOR KEY AREA CONSTRUCTION MENU
-------------------------------------------------------------------------------

              1.  Assign WAV Files and other Key Area Parameters

              2.  Manage Bank Details

              3.  Manage Preset Details

              4.  Manage other Key Areas

              5.  Undo most recent Change

              6.  Redo most recent undone Change

              7.  Save Bank

              8.  Save Bank as...

              9.  Generate Bank in Target Sampler Format

-------------------------------------------------------------------------------
            [1]...[9]: menu option                  ESC: Go back
-------------------------------------------------------------------------------
                        Please enter a menu option: _
```

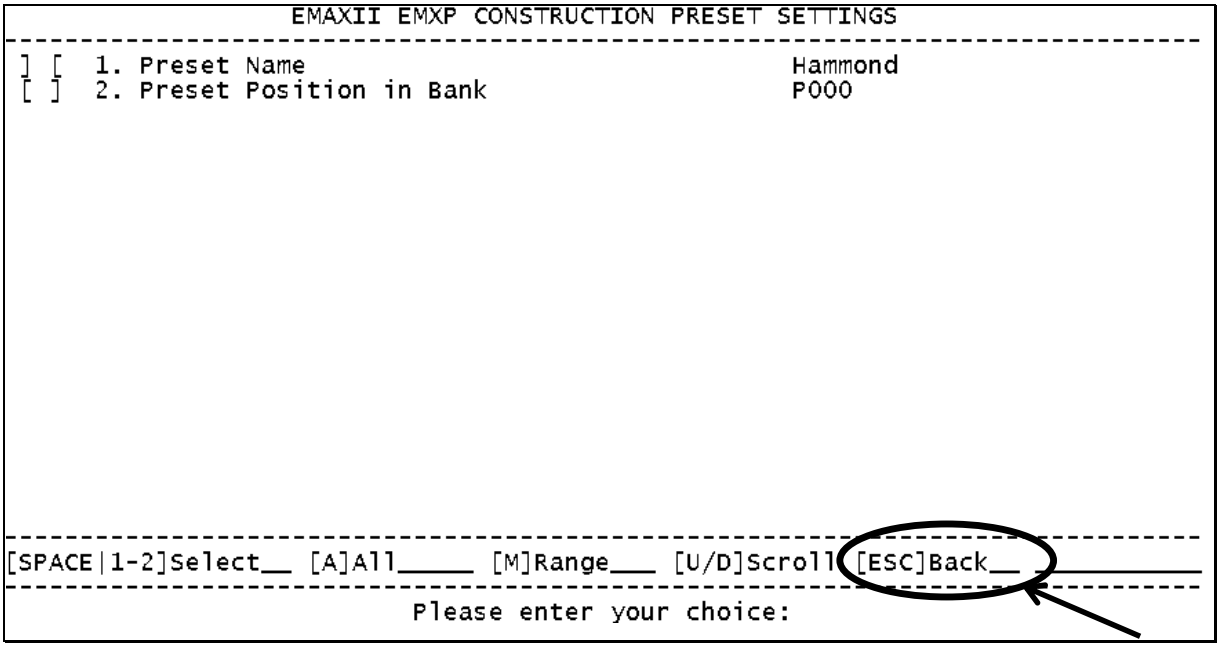
24) We can enter another preset name by selecting item 1 in the preset settings screen and pressing ENTER.

```
                        EMAXII EMXP CONSTRUCTION PRESET SETTINGS
-------------------------------------------------------------------------------
]X[  1. Preset Name                                  PRESET 0
[ ]  2. Preset Position in Bank                      P000

-------------------------------------------------------------------------------
[SPACE|1-2]Select__ [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------------
                          Please enter your choice:
```

25) EMXP asks for a preset name now. We don't agree with the suggested name, so we clear the bottom line of the screen by pressing CTRL-Backspace and we enter the new preset name (here: "Hammond"). EMXP accepts the preset name after we have pressed ENTER.



26) The preset setting screen has been updated with the new preset name. Let's leave this screen by pressing ESCAPE.



27) We press ESCAPE one more time. The current preset's key overview is displayed again and contains the information regarding the WAV file and original note that we have just assigned to the selected key area. Let's leave this screen by pressing ESCAPE.

```
                SELECT KEY(S) FOR EMAX-II KEY AREA CONSTRUCTION
-------------------------------------------------------------------------------
 [ ]  13. A0          |  00 P:----- --------------- S:----- ---------------
 [ ]  14. A#0         |  00 P:----- --------------- S:----- ---------------
 [ ]  15. B0          |  00 P:----- --------------- S:----- ---------------
 [X]  16. C1          |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  17. C#1         |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  18. D1          |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  19. D#1         |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  20. E1          |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  21. F1          |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  22. F#1         |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  23. G1          |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  24. G#1         |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  25. A1          |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  26. A#1         |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [X]  27. B1          |  01 P:F1    B3 HAM1 B1L     S:----- ---------------
 [ ]  28. C2          |  02 P:----- --------------- S:----- ---------------
 [ ]  29. C#2         |  02 P:----- --------------- S:----- ---------------
 ] [  30. D2          |  02 P:----- --------------- S:----- ---------------
-------------------------------------------------------------------------------
[SPACE|01-88]Select [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ [RET]Go____
[+]More [U]Undo____ [R]Redo____ [P]PRI Wav_ [X]PRI Note [Y]PRI Tran [Z]PRI Tune
-------------------------------------------------------------------------------
                          Please enter your choice:
```

28) We press ESCAPE one more time. The bank's preset overview is displayed again and contains the updated information regarding the preset which we have just created. Let's now add a second preset. We select item 2 labelled "(NEW PRESET)" and we press "K" to create the preset and immediately start assigning WAV files to its keys (we bypass the menu).

```
                    SELECT PRESET FOR EMAX-II BANK CONSTRUCTION
        -------------------------------------------------------------------------
         [ ]  1. P000 Hammond          C1->B1     #Zones: 3  #Sample:1   PRI
         ]X[  2. (NEW PRESET)          (no keys)  #Zones: 0  #Sample:0

        -------------------------------------------------------------------------
        [SPACE|1-2]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
        [+]More [U]Undo____ [R]Redo____ [D]Details_ [K]KeyAreas [V]Save____ [G]Generate
        -------------------------------------------------------------------------
                                Please enter your choice:
```

1

2

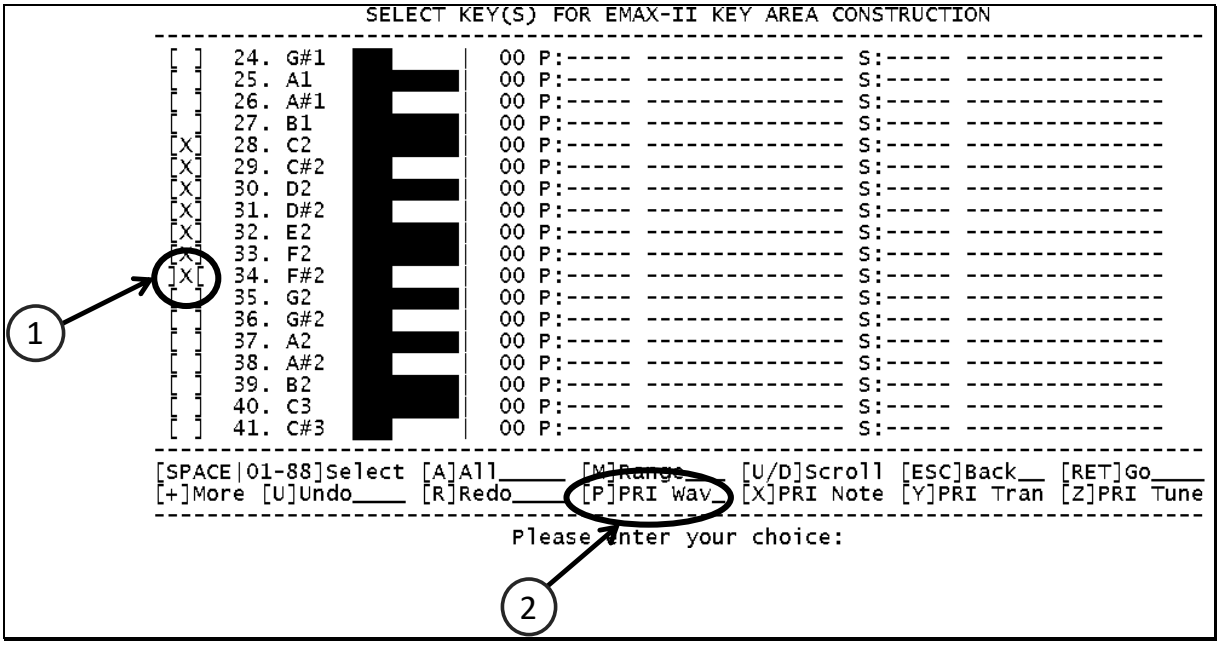
29) EMXP confirms that a new preset has been created. By default this preset has been named "PRESET 1". Let's press any key to continue.

```
                              PROCESS COMPLETED
-------------------------------------------------------------------------------

                  A new empty preset P01 named PRESET 1 has
        successfully been added to the current EMXP CONSTRUCTION bank.
            You can add key areas and assign WAV files to them now.
                              Press any key...

-------------------------------------------------------------------------------
                            [Any key]: Continue
-------------------------------------------------------------------------------
                              Press a key...:
```

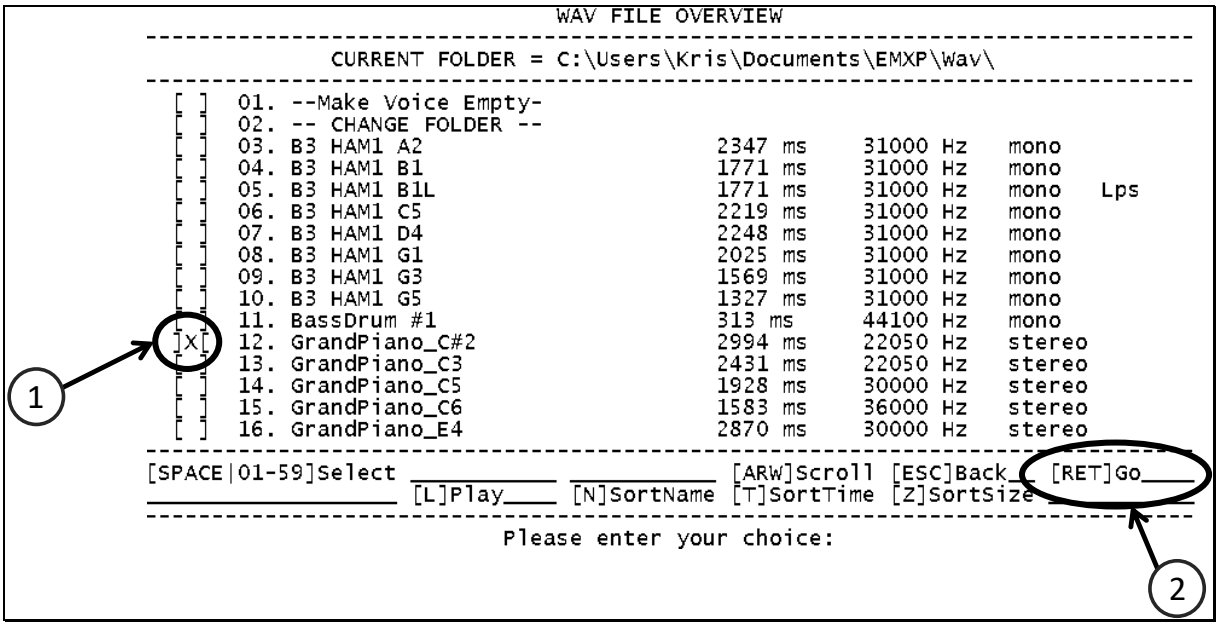
30) We will assign a stereo GrandPiano WAV file to the key area C2 → F#2. To select this key area, we use the "marker" method. We scroll down until we see the keys C2 → F#2. Then we enter "M", we move the cursor to item 28 (after first having scrolled down a few lines by pressing the DOWN key) and we press the SPACE bar to mark the beginning of the key area.

```
                    SELECT KEY(S) FOR EMAX-II KEY AREA CONSTRUCTION
-------------------------------------------------------------------------------
 [ ]  24. G#1  [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  25. A1   [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  26. A#1  [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  27. B1   [redacted]  00 P:----- --------------- S:----- ---------------
 ]M[  28. C2   [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  29. C#2  [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  30. D2   [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  31. D#2  [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  32. E2   [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  33. F2   [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  34. F#2  [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  35. G2   [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  36. G#2  [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  37. A2   [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  38. A#2  [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  39. B2   [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  40. C3   [redacted]  00 P:----- --------------- S:----- ---------------
 [ ]  41. C#3  [redacted]  00 P:----- --------------- S:----- ---------------
-------------------------------------------------------------------------------
[SPACE|01-88]Select ___________ ___________ [U/D]Scroll [ESC]Back__ ___________
_______________________ ___________ ___________ ___________ ___________ ___________
-------------------------------------------------------------------------------
                        Enter end number of selection area:
```

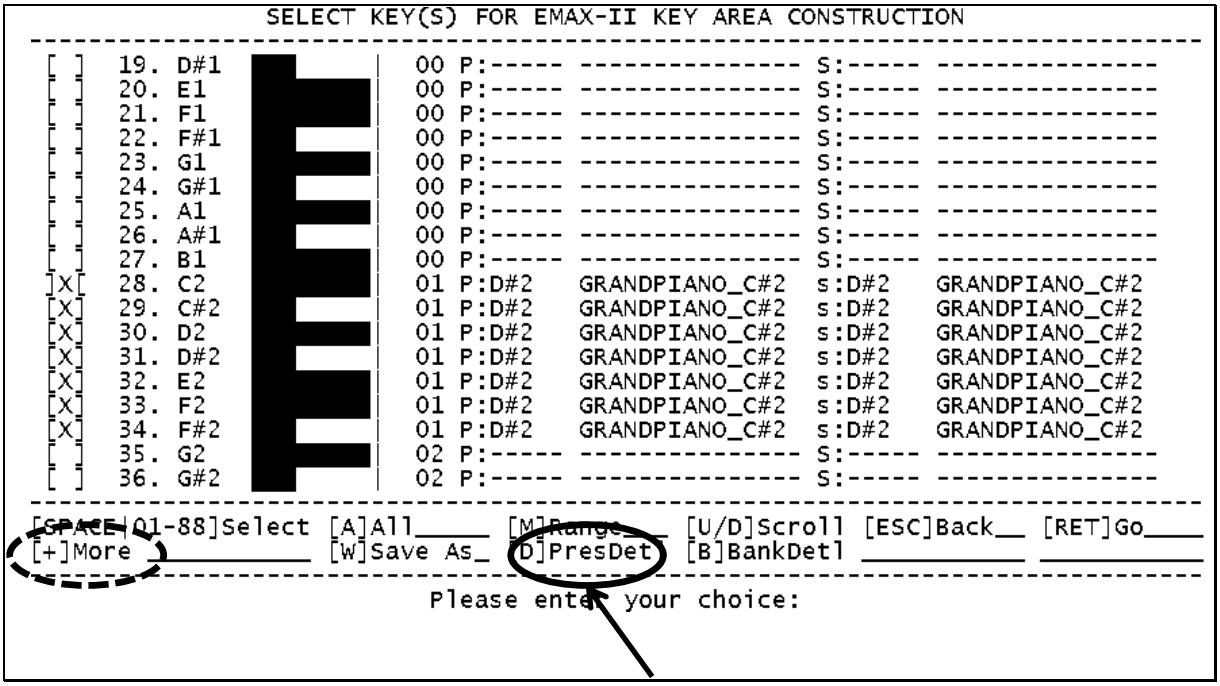
31) We move the cursor to item 34 now and we press the SPACE bar. All items belonging to keys C2 → F#2 are selected now. We will assign a WAV file to these keys now, by pressing the short cut key "P" on the keyboard. *To assign WAV files to SECondary voices, shortcut key "S" can be used. In addition, many more shortcut keys are available for a fast definition or parameters like original note and keyboard transposition, both for the PRImary and the SECondary voices. We have to press the "+" key a few times to scroll through all available shortcut keys which appear on the bottom line of the screen.*



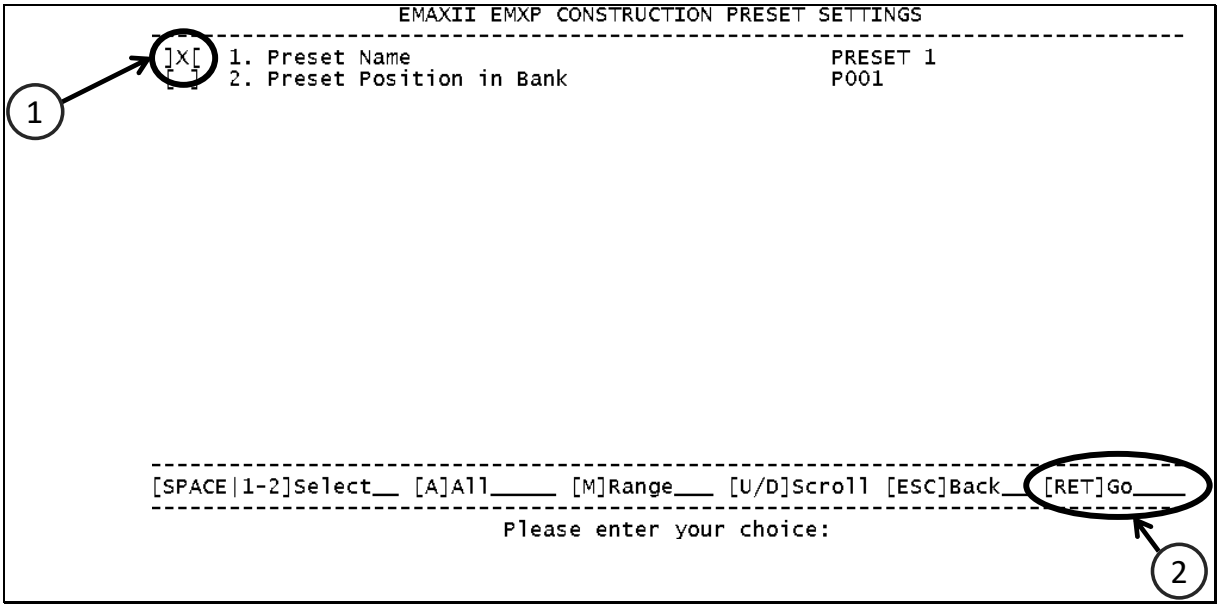
32) EMXP launches the File Manager and we can select the WAV file that we would like to assign to the PRImary voice of the selected keys. We select the stereo WAV file named "GrandPiano_C#2" by selecting item 12 and we press ENTER.



33) The current preset's key overview is displayed again and contains the information regarding the WAV file we just assigned to the selected keys. Since we have selected a stereo WAV file, and since we have enabled the "Stereo to PRI and SEC voice" option (see step 10), the WAV file has been assigned to both the PRI voice and SEC voice. We press shortcut key "D" to change some preset parameters now *(we may have to press "+" a few time to scroll through the available shortcut keys at the bottom line of the screen and to find out that shortcut key "D" is indeed available)*



34) We can enter another preset name by selecting item 1 in the preset settings screen and we press ENTER.



35) EMXP asks for a preset name now. We don't agree with the suggested name, so we clear the bottom line of the screen by pressing CTRL-Backspace and we enter the new preset name (here: "GrandPiano"). EMXP accepts the preset name after we have pressed ENTER.

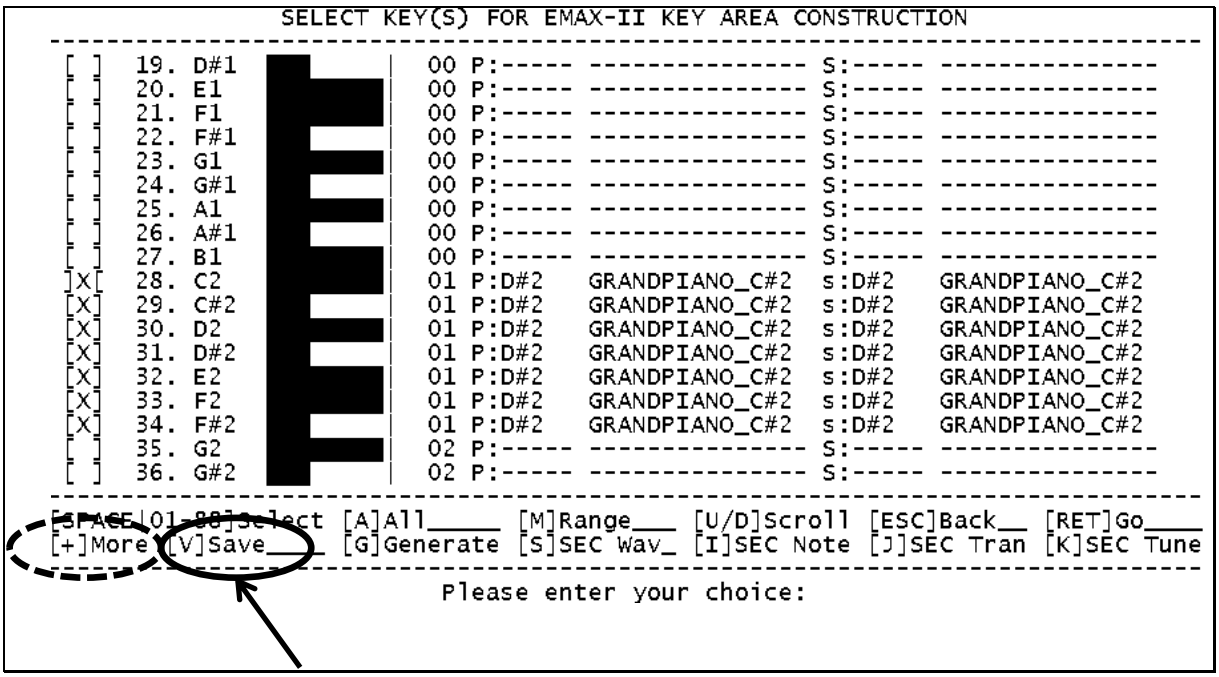
```
                          CHANGE EMAX-II PRESET NAME
 ---------------------------------------------------------------------------

                Please provide a new name for EMAX-II preset P01.
                      The current preset name is [PRESET 1]



 ---------------------------------------------------------------------------
 [name+RET]:name   [blank+RET]:Accept proposal   [CTRL-BKSP]:Clear   [ESC]:Back
 ---------------------------------------------------------------------------
    Please enter a name: GrandPiano_
```

2 1

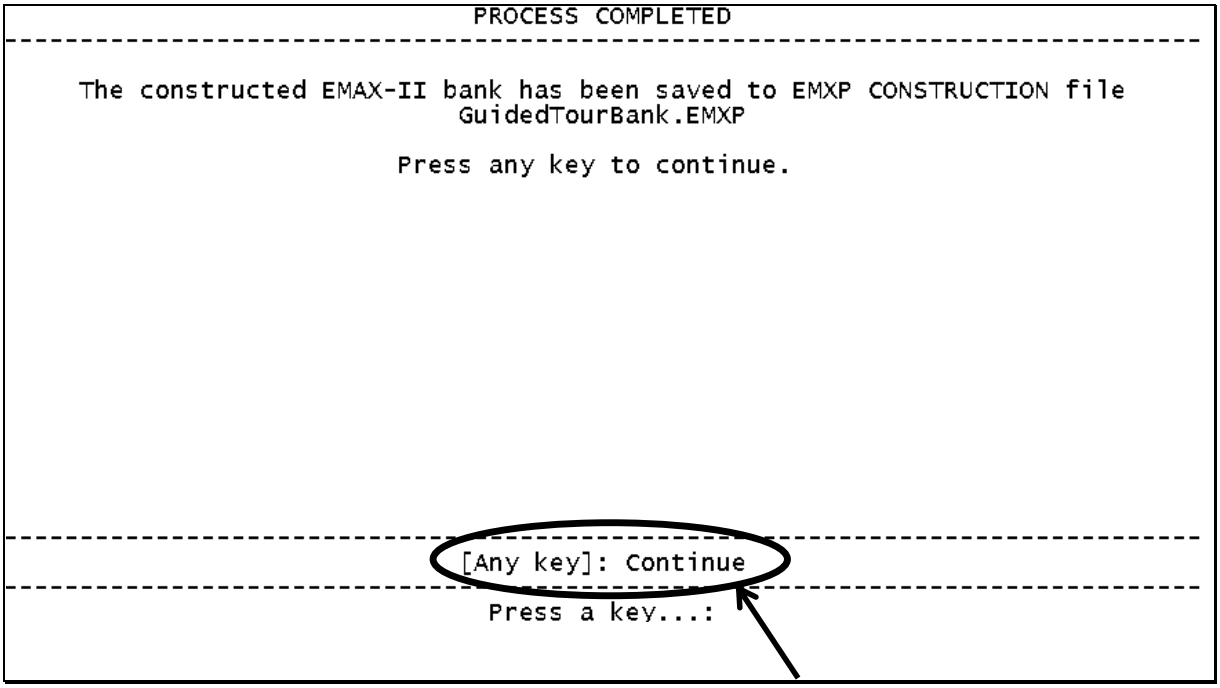
36) The preset setting screen has been updated with the new preset name. Let's leave this screen by pressing ESCAPE.

```
                   EMAXII EMXP CONSTRUCTION PRESET SETTINGS
---------------------------------------------------------------------------
] [  1. Preset Name                                  GrandPiano
[ ]  2. Preset Position in Bank                      P001



---------------------------------------------------------------------------
[SPACE|1-2]Select__ [A]All_____ [M]Range___ [U/D]Scroll [ESC]Back__ _________
---------------------------------------------------------------------------
                          Please enter your choice: _
```

37) We are back in the key area overview screen now. Let's save the changes we made to the construction file, by pressing shortcut key "V"*(we may have to press "+" a few time to scroll through the available shortcut keys at the bottom line of the screen and to find out that shortcut key "V" is indeed available)*



38) After having saved the file, EMXP shows following message:



39) We will generate the constructed bank now to an EMAX-II bank file. This can be done at any time by pressing the "G" shortcut key in either the preset overview screen or (as illustrated below) the key area overview screen. *Alternatively it's also possible to start the generation by selecting function 9 in either the preset construction menu or the key area construction menu (not shown here)*

```
                    SELECT KEY(S) FOR EMAX-II KEY AREA CONSTRUCTION
 ------------------------------------------------------------------------------
  [ ]  19. D#1          |  00 P:----- --------------- S:----- ---------------
  [ ]  20. E1           |  00 P:----- --------------- S:----- ---------------
  [ ]  21. F1           |  00 P:----- --------------- S:----- ---------------
  [ ]  22. F#1          |  00 P:----- --------------- S:----- ---------------
  [ ]  23. G1           |  00 P:----- --------------- S:----- ---------------
  [ ]  24. G#1          |  00 P:----- --------------- S:----- ---------------
  [ ]  25. A1           |  00 P:----- --------------- S:----- ---------------
  [ ]  26. A#1          |  00 P:----- --------------- S:----- ---------------
  [ ]  27. B1           |  00 P:----- --------------- S:----- ---------------
 ]X[  28. C2           |  01 P:D#2   GRANDPIANO_C#2  s:D#2   GRANDPIANO_C#2
 [X]  29. C#2          |  01 P:D#2   GRANDPIANO_C#2  s:D#2   GRANDPIANO_C#2
 [X]  30. D2           |  01 P:D#2   GRANDPIANO_C#2  s:D#2   GRANDPIANO_C#2
 [X]  31. D#2          |  01 P:D#2   GRANDPIANO_C#2  s:D#2   GRANDPIANO_C#2
 [X]  32. E2           |  01 P:D#2   GRANDPIANO_C#2  s:D#2   GRANDPIANO_C#2
 [X]  33. F2           |  01 P:D#2   GRANDPIANO_C#2  s:D#2   GRANDPIANO_C#2
 [X]  34. F#2          |  01 P:D#2   GRANDPIANO_C#2  s:D#2   GRANDPIANO_C#2
  [ ]  35. G2           |  02 P:----- --------------- S:----- ---------------
  [ ]  36. G#2          |  02 P:----- --------------- S:----- ---------------
 ------------------------------------------------------------------------------
 [SPACE|01-88]Select [A]All____  [M]Range___ [U/D]Scroll [ESC]Back__ [RET]Go____
 [+]More [V]Save____ [G]Generate [S]SEC Wav_ [I]SEC Note [J]SEC Tran [K]SEC Tune
 ------------------------------------------------------------------------------
                          Please enter your choice:
```

40) EMXP now asks whether the generation of the bank should be done in an automated (batch) mode with minimal user intervention, or rather in a fully controlled manual mode. In our example we want to have full control of the generation process so we select the second item and we press ENTER.

```
          DEFINE WHETHER EMXP SHOULD GENERATE SAMPLER BANKS AUTOMATICALLY OR NOT
 ------------------------------------------------------------------------------
 [ ]  1. Yes, generate sampler banks as automated as possible          (BATCH)
 ]X[  2. No, user should have maximum control                         (MANUAL)
 [ ]  3. Use custom automation level                                  (MANUAL)

          BATCH: All selected sampler banks will be generated
            automatically using the generation preferences, e.g.
            for sample rates. You only have to specify the folder/disk where
            the generated sampler banks should be saved.
          MANUAL: You can define all generation parameters and
            you can specify the destination (e.g. target file names) for each
            generated sampler bank. Define which parts of
            the generation process should be manual or automated.
          SEMI-MANUAL: The current generation settings can be a
            mix of manual and automated processing, as has been configured
            previously in MANUAL or SEMI-MANUAL mode.

 [ ]  4. Don't show this screen anymore
 ------------------------------------------------------------------------------
 [SPACE|1-4]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
 ------------------------------------------------------------------------------
                          Please enter your choice: _
```

41) In the next step we have to select the file type or disk type of the EMAX-II bank. We will generate an EMAX-II bank file, so we select item 1 and we press ENTER.

```
                    PLEASE SELECT THE TARGET EMAX-II FILE/DISK TYPE
--------------------------------------------------------------------------
 ]X[  1. Generate to EMAX-II Bank in Bank File(s)
 [ ]  2. Generate to EMAX-II Bank in EMX File(s)
 [ ]  3. Generate to EMAX-II Bank on Floppy Disk Image File(s)
 [ ]  4. Generate to EMAX-II Bank in HxC Floppy Image File(s)
 [ ]  5. Generate to EMAX-II Bank on Hard Disk Image File
 [ ]  6. Generate to EMAX-II Bank on Hard Disk
 [ ]  7. Generate to EMAX-II Bank on Floppy Disk(s)

--------------------------------------------------------------------------
[SPACE|1-7]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
--------------------------------------------------------------------------
                        Please enter your choice:
```

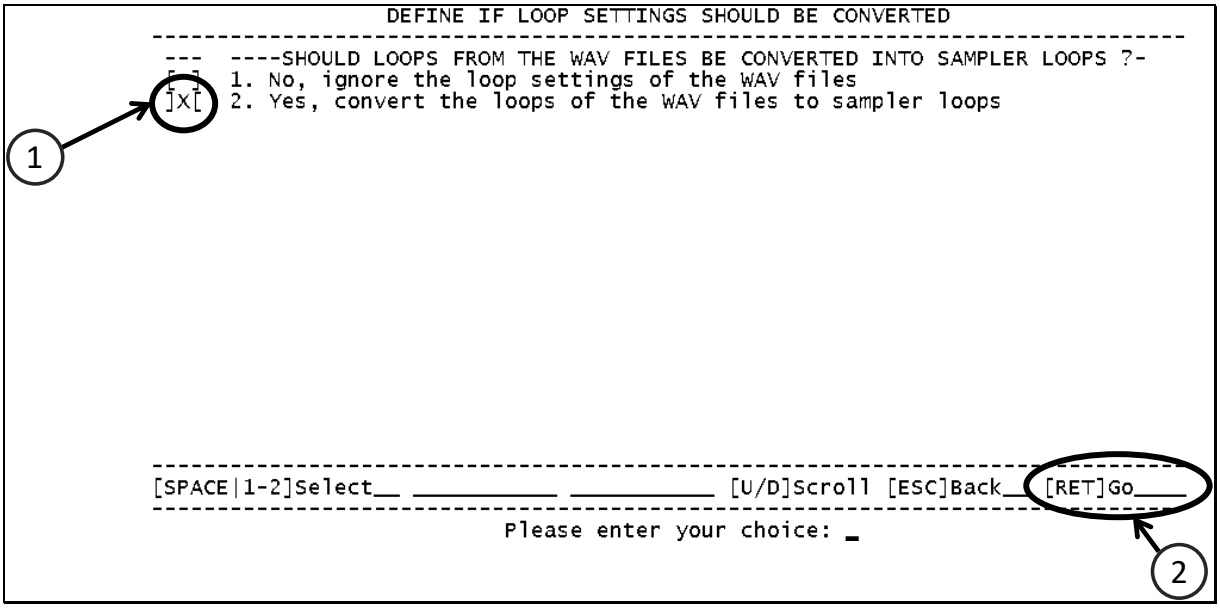
42) We have to decide now whether EMXP can take decisions itself or whether we want to have manual control regarding:

- selecting the file name of the target EMAX-II bank file
- errors and exceptions which may occur during the generation process.

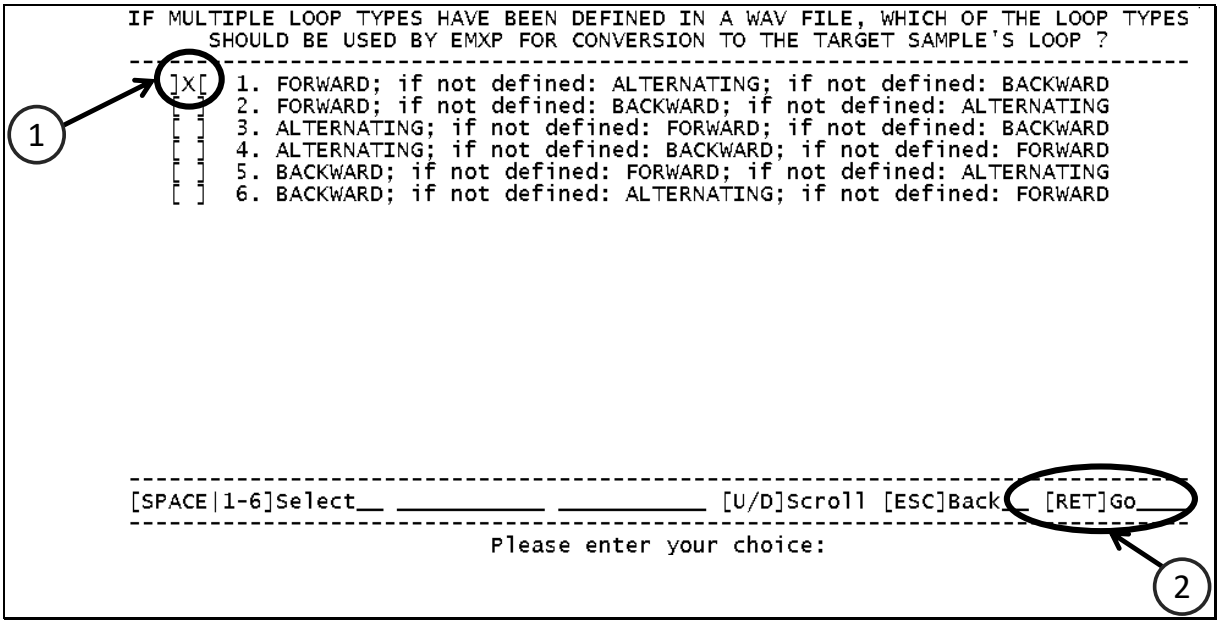
We want to have maximum user control, so we select items 1 and 3 and we press ENTER.

```
          SPECIFY TO WHAT EXTENT EMXP CAN AUTOMATICALLY PROCESS SELECTED ITEMS
--------------------------------------------------------------------------
          PLEASE SPECIFY HOW THE TARGET FILES AND FILE NAMES SHOULD BE CHOSEN
 ]X[  1. Select target files and file names for storing banks yourself
 [ ]  2. Let EMXP automatically generate target files and file names

          IN CASE OF AN ERROR OR A CONFLICT WITH SAMPLER LIMITS OR PREFERENCES
 [X]  3. Always show a message or ask confirmation for solving the problem
 [ ]  4. EMXP can skip the item or decide itself how to solve the problem

--------------------------------------------------------------------------
[SPACE|1-4]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
--------------------------------------------------------------------------
                        Please enter your choice:
```

43) The WAV file that we have assigned to the "Hammond" preset contains loops. When generating the EMAX-II sound bank, EMXP can convert one of the WAV loops to an EMAX-II sample loop. Since that's exactly what we want, we select item 2 in the screen below and press ENTER. *The choice whether to convert WAV loops or not is true for all WAV files (all samples) in the construction file - it's not possible to define the loop conversion parameter for each WAV file individually.*



44) Since the "B3 HAM1 B1L" WAV file contains three loops (two *forward* loops and one *alternating* loop), but EMXP can only convert *one loop* per WAV file, we have to define which loop EMXP should convert. In this example the selection process consists of two steps: (1) selecting which *loop type* should be converted, and (2) *which of the loops* from that loop type should be converted. Let's do step (1) now. We prefer the *forward loops*, so we select item 1 and press ENTER. *Although in our example only one WAV file contains loops, the selection of the loop type would be true for all WAV files of the construction file. Please note that in practice you will rarely have to select this parameter: most WAV files contain maximum one loop...*



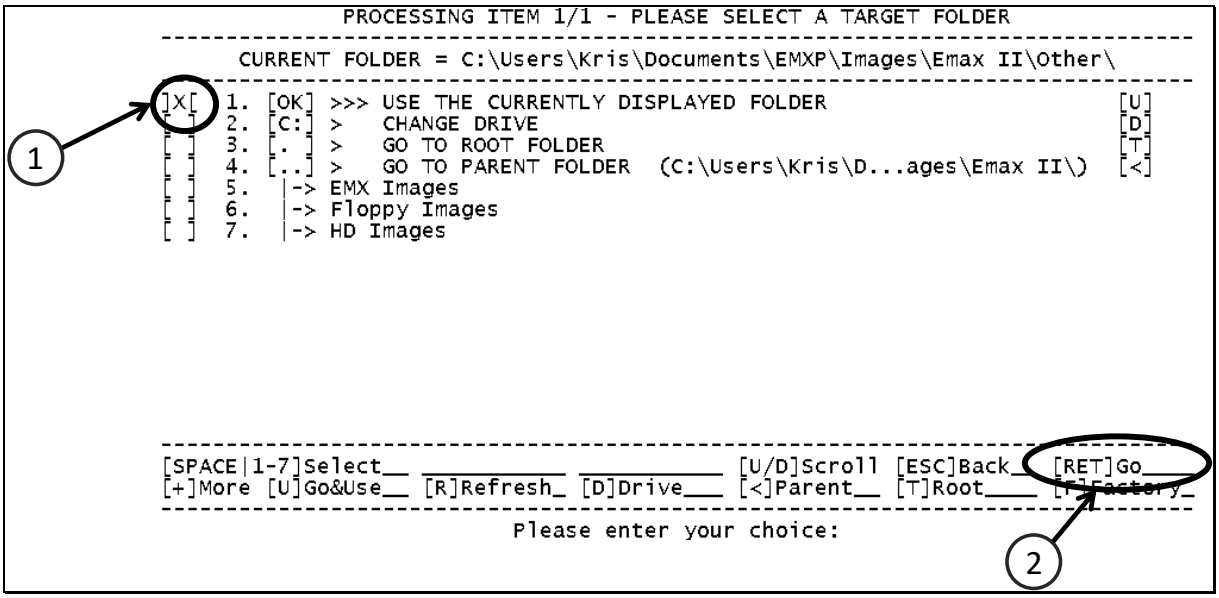
45) As a second step (2) we have to select *which* of the *forward loops* EMXP should convert. Indeed, the WAV file may contain multiple forward loops (as well as multiple backward loops and multiple alternating loops). The "B3 HAM1 B1L" WAV file contains two forward loops. We prefer the loop with the highest number of loop cycles, because we consider that loop to be the "main" loop of the WAV file. We select item 1 and press ENTER. *Again, this parameter will be used for all WAV files in the construction file - it's not possible to define this parameter for each WAV file individually. Please note that in practice you will rarely have to select this parameter: most WAV files contain maximum one loop...*

```
                    DEFINE WHICH WAV LOOPS SHOULD BE CONVERTED
              IF MULTIPLE LOOPS HAVE BEEN DEFINED IN THE WAV FILES
-------------------------------------------------------------------------------
      ----FOR CONVERTING FORWARD LOOPS (IF ANY DEFINED)--------------------
]X[   01. Use the loop with the highest number of cycles (e.g. indefinite)
[ ]   02. Use the loop with the longest length (number of sample points)
[ ]   03. Use the first loop
[ ]   04. Select a specific loop number
---   ----FOR CONVERTING BACKWARD LOOPS (IF ANY DEFINED)-------------------
[X]   05. Use the loop with the highest number of cycles (e.g. indefinite)
[ ]   06. Use the loop with the longest length (number of sample points)
[ ]   07. Use the first loop
[ ]   08. Select a specific loop number
---   ----FOR CONVERTING ALTERNATING LOOPS (IF ANY DEFINED)----------------
[X]   09. Use the loop with the highest number of cycles (e.g. indefinite)
[ ]   10. Use the loop with the longest length (number of sample points)
[ ]   11. Use the first loop
[ ]   12. Select a specific loop number

-------------------------------------------------------------------------------
[SPACE|01-12]Select ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------------
                          Please enter your choice:
```

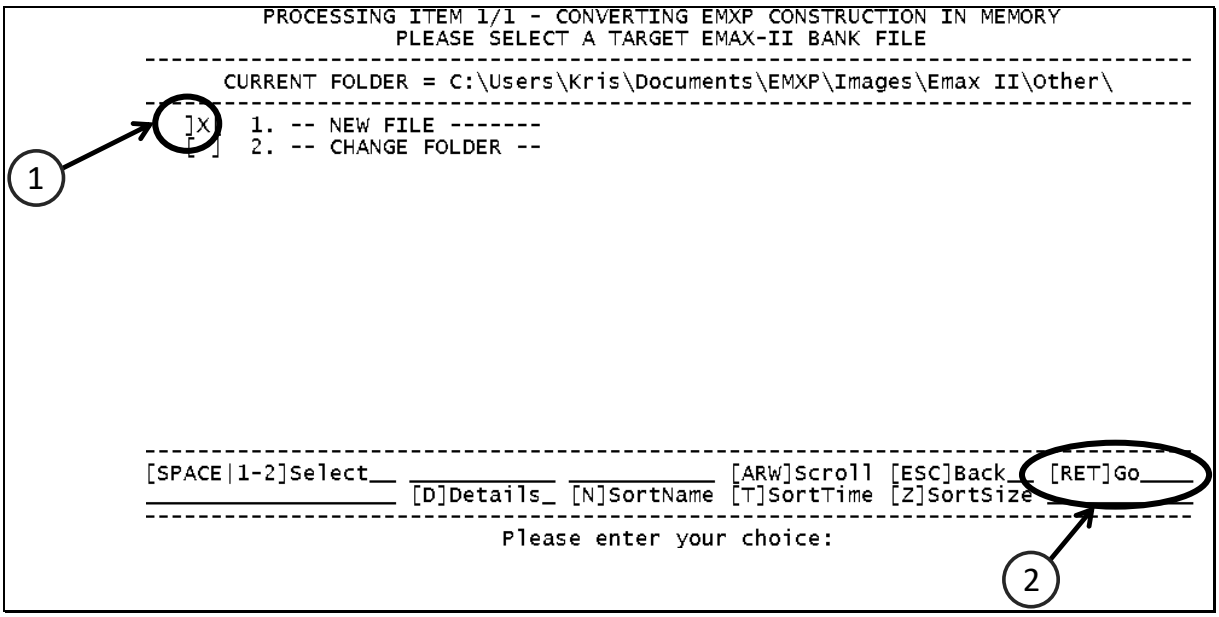
46) The last parameter we have to define is to what type of EMAX-II loop the WAV loops should be converted. There are two possibilities: *sustain loop* and *in release loop.* We will convert the Hammond loop to a sustain loop, so we select item 1 and press ENTER.

```
          DEFINE TO WHICH SAMPLER LOOP TYPE WAV LOOPS SHOULD BE CONVERTED
-------------------------------------------------------------------------------
          ]X[  1. Convert the WAV Loop(s) to SUSTAIN Loop(s)
          [ ]  2. Convert the WAV Loop(s) to IN RELEASE Loop(s)

-------------------------------------------------------------------------------
[SPACE|1-2]Select__ ___________ ___________ [U/D]Scroll [ESC]Back__ [RET]Go____
-------------------------------------------------------------------------------
                          Please enter your choice: _
```

47) We have to select the target folder and target file name now. The current folder is fine in our example, so we press ENTER.



48) We enter a new file name by selecting item 1 labelled "-- NEW FILE --" and pressing ENTER.



49) EMXP proposes a file name based on the bank name that we have defined in step 9. The proposed file name is fine, so we simply press ENTER to accept this file name.

```
        PROCESSING ITEM 1/1 - CONVERTING EMXP CONSTRUCTION IN MEMORY
                  PLEASE SELECT A TARGET EMAX-II BANK FILE
-----------------------------------------------------------------------------

                      Ready to create EMAX-II bank file
                      from EMXP construction in memory
               (1 bank and a total of 1 file will be created)

         Please specify a filename for the target EMAX-II bank file.
                           Suggested filename is:
                                [Guided Tour]









-----------------------------------------------------------------------------
[name+RET]:name   [blank+RET]:Accept proposal   [CTRL-BKSP]:Clear   [ESC]:Back
-----------------------------------------------------------------------------
   Please enter a name: Guided Tour
```

50) The EMAX-II bank file is being generated now. When the generation is completed, EMXP displays a generation execution report containing details about the generation process. This report has also been saved to disk. The report name and location can be found at the end of the report. In the report we can see the generated bank and its presets, as well as the file name and file location of the generated bank file. Lets browse through the report by using the UP and DOWN or PAGE UP and PAGE DOWN keys.

```
                REPORT: EMXP CONSTRUCTION GENERATION TO EMAX-II
-----------------------------------------------------------------------------
  1 selected bank has been processed

  ---------------------------------------------------------------------------

  EMXP construction in memory:
  ...HAS BEEN GENERATED TO...
  Bank Hammond in EMAX-II bank file:
    Guided Tour.EB2
      in C:\Users\Kris\Documents\EMXP\Images\Emax II\Other\
  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
  GENERATION REPORT:

  EMAXII BANK: Hammond

  P00 Hammond      :
   KEY A-1 ->B0   PRI: ---
                  SEC: ---
   KEY C1  ->B1   PRI: B3 HAM1 B1L.WAV (*)
                  SEC: ---
-----------------------------------------------------------------------------
     [UP/DOWN]        [PGUP/PGDN]          [HOME/END]          [ESC]
-----------------------------------------------------------------------------
                      Please enter your choice:
```

51) When we scroll down a few lines, we get an overview of the WAV files and the key areas and layers (PRI/SEC) to which these WAV files have been assigned in each preset. The (*) at the right of the "B3 HAM1 B1L.WAV" file name indicates that one of the WAV file's loops has been converted as well. Let's leave the report screen by pressing ESCAPE.

```
                REPORT: EMXP CONSTRUCTION GENERATION TO EMAX-II
-------------------------------------------------------------------------------
 GENERATION REPORT:

 EMAXII BANK: Hammond

 P00 Hammond     :
  KEY A-1 ->B0   PRI: ---
                 SEC: ---
  KEY C1  ->B1   PRI: B3 HAM1 B1L.WAV (*)
                 SEC: ---
  KEY C2  ->C7   PRI: ---
                 SEC: ---

 P01 GrandPiano  :
  KEY A-1 ->B1   PRI: ---
                 SEC: ---
  KEY C2  ->F#2  PRI: L-GrandPiano_C#2.WAV
                 SEC: R-GrandPiano_C#2.WAV
  KEY G2  ->C7   PRI: ---
                 SEC: ---
-------------------------------------------------------------------------------
      [UP/DOWN]          [PGUP/PGDN]          [HOME/END]          [ESC]
-------------------------------------------------------------------------------
                          Please enter your choice:
```

52) This is the end of guided tour #15. To leave EMXP we have to press the ESCAPE button a few times.

GUIDED TOUR #16: LISTENING TO EMULATOR-II BANKS

In this guided tour, we will listen to the samples of some Emulator-II sound banks. It is assumed that a WAVE compliant audio player device is available on the computer.

1) After having started EMXP the main menu will appear. Since we want to listen to samples of EMU Emulator-II files, we select menu function 1 by pressing "1" on the keyboard of the computer.

```
      EMXP v3.10.01 (C)2006-2020 BY ESYNTHESIST@YAHOO.COM -- MAIN MENU
-----------------------------------------------------------------------------

                    1.  Manage EMU Files and Disks
                    2.  Manage AKAI S1000 Files and Disks
                    3.  Manage WAV Files
                    4.  Manage SOUNDFONT2 Files
                    5.  Manage EMXP CONSTRUCTION Files
                    6.  Preferences




-----------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                          Please enter a menu option:
```

2) The Emu Sampler menu will appear. Since we want to listen to samples of Emulator-II files, we select menu function 4 by pressing "4" on the keyboard of the computer.

```
                              EMU SAMPLER MENU
-----------------------------------------------------------------------------

              1.  Manage EMU EMAX-I Files and Disks
              2.  Manage EMU EMAX-II Files and Disks
              3.  Manage EMU EMULATOR-I Files
              4.  Manage EMU EMULATOR-II Files and Disks
              5.  Manage EMU EMULATOR-III/X/ESI Files and Disks
              6.  Manage EMU SP-12 Files




-----------------------------------------------------------------------------
            [1]...[6]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                          Please enter a menu option:
```

3) In the Emulator-II menu we select menu function 1 to get an overview of all Emulator-II bank files in the current folder.

```
                          EMULATOR-II SAMPLER MENU
-----------------------------------------------------------------------------

            1.  Manage EMULATOR-II Bank Files

            2.  Manage EMULATOR-II Floppy Disk Images

            3.  Manage EMULATOR-II HxC Floppy Disk Images

            4.  Manage EMULATOR-II Hard Disk Images (e.g. DREM)

            5.  Manage EMULATOR-II Hard Disks

            6.  Manage EMULATOR-II Operating System Files

            7.  Receive Banks from EMULATOR-II via RS422

            8.  Receive Samples from EMULATOR-II via RS422


-----------------------------------------------------------------------------
          [1]...[8]: menu option                  ESC: Go back
-----------------------------------------------------------------------------
                         Please enter a menu option:
```

4) EMXP now shows a list of all Emulator-II bank files in the current folder, which in our example was already set to the correct folder (\Images\Emulator II\EmuII Factory) so we don't have to navigate to that folder anymore. We want to listen to the samples of 3 files: "04 Grand Piano", "05 Marcato Strings" and "06 Bass, Synth, Drums". Selecting these files can be done in a few ways:

- (shown in picture) By entering "02", "03" and "04" successively on the keyboard (or "2", "3" and "4" each time followed by ENTER)
- (not shown in picture) By moving the cursor ("] [") with the UP and DOWN keys to each of the items 02 till 04 and for each item we press the SPACE bar to select the item. After having completed this action for the 3 items
- (not shown in picture) By marking the set of 3 files. To do this we first press "M" on the keyboard , then we move the cursor ("] [") with the UP and DOWN keys to item 2, and we press the SPACE bar. The selector in front of item 2 changes from "[ ]" to "[M]". Then we move the cursor to item 4 and press the SPACE bar again.

After having selected the 3 items, we press "L" to listen to the samples of these files.

```
                          EMULATOR-II BANK FILE OVERVIEW
          ---------------------------------------------------------------------------
          CURRENT FOLDER = C:\Users\Kris\Documents\EMXP\Images\Emulator II\EmuII Factory\
          ---------------------------------------------------------------------------
            [ ]  01. -- CHANGE FOLDER --
            [X]  02. 04 Grand Piano                Piano #3   #Pres: 15  #Samp: 6
            [X]  03. 05 Marcato Strings            Marcato St #Pres: 14  #Samp: 10
            ]X[  04. 06 Bass, Synth, Drums         Bass Synth #Pres: 11  #Samp: 22
            [ ]  05. 07 Percussion #1              Elec Drum  #Pres: 14  #Samp: 34
            [ ]  06. 08 Cello & Violin             Cello Vln  #Pres: 7   #Samp: 26
            [ ]  07. 09 Orchestra Tune             Orch Tune  #Pres: 4   #Samp: 1
            [ ]  08. 10 Stacked Strings            Arco Strgs #Pres: 12  #Samp: 6
            [ ]  09. 11 Acoustic Guitar            Acou Guita #Pres: 5   #Samp: 6
            [ ]  10. 12 Voices                     Voices #1  #Pres: 12  #Samp: 11
            [ ]  11. 13 Digital Synth              Flute #1   #Pres: 27  #Samp: 16
            [ ]  12. 14 Gong, Timpani, Voices      Gong Tymp  #Pres: 1   #Samp: 4
            [ ]  13. 15 Armaggedon                 Armagedon  #Pres: 1   #Samp: 4
            [ ]  14. 16 Basoon Flute               LUTE       #Pres: 21  #Samp: 8
            [ ]  15. 17 Kalimba & Shaku-Hachi      Kalimba #1 #Pres: 2   #Samp: 6
            [ ]  16. 18 Grand Piano #2             NULL PRESE #Pres: 1   #Samp: 0
          ---------------------------------------------------------------------------
          [SPACE|01-94]Select [A]All_____ [M]Range___ [ARW]Scroll [ESC]Back___ [RET]Go____
          [+]More ___________ ___________ [Y]Copy____ [C]Convert_ [W]ToWav___ [L]Play____
          ---------------------------------------------------------------------------
                                   Please enter your choice:
```

5) EMXP is now asking for an audio device player. This is done only once (EMXP will remember the device and will not ask for it anymore in the future, unless you select option 2). In our example we will use the on-board Realtek device player. We select item 1 and press ENTER.

```
                 SELECT AUDIO DEVICE FOR PLAYING WAV-FILES AND SAMPLES
     ----------------------------------------------------------------------
         [X]  1. Device 0: Speakers (Realtek High Definiti
1
                                                                  ] [  2. Always show this screen (always ask for an audio device)
     ----------------------------------------------------------------------
     [SPACE|1-2]Select__ __________ __________ [U/D]Scroll [ESC]Back__ [RET]Go____
     ----------------------------------------------------------------------
                                Please enter your choice: _
                                                                                                                                2
```

6) EMXP will prepare the audio data of the first selected Emulator-II bank file ("04 Grand Piano") and launch the audio player (unless we have explicitly defined in the Audio Preferences that we would like to select some audio conversion settings every time we want to listen to samples or WAV-files; by default this option is turned off. Note that EMXP uses the same conversion settings for audio playing as the ones that are applicable for sample-to-WAV and WAV-to-sample conversions).
When selecting multiple sound banks for audio play, EMXP will by default enable the *automatic sequential play* of all samples and all banks. The status area of the audio player shows that these options are indeed on, as well as that the audio of sample 1 of bank 1 is playing. The settings for automatically starting the audio player and enabling sequential play can be changed in the Audio Preferences.

```
                 PLAYING EMULATOR-II SAMPLE 1/6 (OF BANK 1/3)
-----------------------------------------------------------------------------
Sample:   S001
Bank:     Piano #3
File:     04 Grand Piano.EII
Settings: MONO, 27778 Hz, 60998 sample points w/o offsets (voice settings)
          Loop (forw): 51206->60993
Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
          MONO, 27778 Hz, 60998 sample points, Loop (forw): 51206->60993
-----------------------------------------------------------------------------
Status:   Started          Loop OFF                  VOLUME
          Playing >>>      Play all samples ON       L: ||||||||||||||||      ( 80)
                           Play all banks ON         R: ||||||||||||||||      ( 80)
Latest request: None
-----------------------------------------------------------------------------
SPACE:   Start/Pause     RIGHT:    Next sample   L: Short loop ON/Any loop OFF
R:       Restart         N/ENTER:  Next bank     E: Long  loop ON/Any loop OFF
S:       Stop                                    A: Play all samples ON/OFF
UP/PGUP: Volume Up                               B: Play all banks   ON/OFF
DN/PGDN: Volume Down

-----------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
-----------------------------------------------------------------------------
          ||||||||||||||||||||||||||||
```

7) While EMXP is playing audio, we can lower the volume by pressing the PAGE DOWN or DOWN keys. The volume level in EMXP is *relative* to the volume of the audio device in the main audio mixer of Windows.

```
                    PLAYING EMULATOR-II SAMPLE 6/6 (OF BANK 1/3)
--------------------------------------------------------------------------------
Sample:   S006
Bank:     Piano #3
File:     04 Grand Piano.EII
Settings: MONO, 27778 Hz, 67285 sample points w/o offsets (voice settings)
          No loop defined or loops are OFF
Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
          MONO, 27778 Hz, 67285 sample points, Loop (forw): 2->67280
--------------------------------------------------------------------------------
Status:   Started        Loop OFF                  VOLUME
          Playing >>>    Play all samples ON       L: ||||||||||          ( 50)
                         Play all banks ON         R: ||||||||||          ( 50)
Latest request: Decrease volume with 10 pct
--------------------------------------------------------------------------------
SPACE:   Start/Pause     LEFT :    Prev sample     L: Short loop ON/Any loop OFF
R:       Restart         HOME/DEL: 1st  sample     E: Long  loop ON/Any loop OFF
S:       Stop            N/ENTER:  Next bank       A: Play all samples ON/OFF
UP/PGUP: Volume Up                                 B: Play all banks   ON/OFF
DN/PGDN: Volume Down

--------------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
--------------------------------------------------------------------------------
            ||||||||||||
```

8) After the last sample of the first bank has been played, EMXP will prepare the next selected bank for being played in the audio player. During the preparation process is EMXP will display a message is for a short while (the required time for preparing audio can be higher if the sound bank is residing on a slower device, e.g. when listening to EMAX-II sound banks on a floppy disk or on an EMAX-II hard disk/CDROM).

```
                    SAMPLE PLAY PREPARATION IN PROGRESS
--------------------------------------------------------------------------------
                    EMXP is preparing the samples
              of EMULATOR-II bank Marcato Strg from bank file
                          05 Marcato Strings
             for being played on the selected audio device...



--------------------------------------------------------------------------------
                                 PLEASE WAIT
--------------------------------------------------------------------------------
          |||||
```

9) While EMXP is playing the first sample of the second bank ("05 Marcato Strings"), we press SPACE to pause the audio play.

```
                    PLAYING EMULATOR-II SAMPLE 1/10 (OF BANK 2/3)
-----------------------------------------------------------------------------
Sample:   S001
Bank:     Marcato Strg
File:     05 Marcato Strings.EII
Settings: MONO, 27778 Hz, 38601 sample points w/o offsets (voice settings)
          Loop (forw): 15428->38596
Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
          MONO, 27778 Hz, 38601 sample points, Loop (forw): 15428->38596
-----------------------------------------------------------------------------
Status:   Paused          Loop OFF                VOLUME
          Paused >>>      Play all samples ON     L: ||||||||||          ( 50)
                          Play all banks ON       R: ||||||||||          ( 50)
Latest request: Pause playing sample
-----------------------------------------------------------------------------
SPACE:    Start/Pause     RIGHT:    Next sample   L: Short loop ON/Any loop OFF
R:        Restart         N/ENTER:  Next bank     E: Long  loop ON/Any loop OFF
S:        Stop            P/BACKSP: Prev bank     A: Play all samples ON/OFF
UP/PGUP:  Volume Up       F:        1st  bank     B: Play all banks   ON/OFF
DN/PGDN:  Volume Down

-----------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
-----------------------------------------------------------------------------
          |||||||||||||||||||||||||
```

10) Since the current sample has a loop defined, we enable the loop play function of EMXP by pressing "L". The sample will be restarted (even if it was paused), and when the start sample point of the loop is reached, the audio player will start cycling through the loop. The number of cycles is determined by EMXP and can be seen in the status area. *Note that we can also ask EMXP to play the loop for an infinite number of cycles by pressing "E" instead of "L"*. The loop player can be stopped at all times by pressing "L" or "E" again. If no loop would have been defined in the sample, the loop player will re-play the *whole sample*.

```
                    PLAYING EMULATOR-II SAMPLE 1/10 (OF BANK 2/3)
-----------------------------------------------------------------------------
Sample:   S001
Bank:     Marcato Strg
File:     05 Marcato Strings.EII
Settings: MONO, 27778 Hz, 38601 sample points w/o offsets (voice settings)
          Loop (forw): 15428->38596
Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
          MONO, 27778 Hz, 38601 sample points, Loop (forw): 15428->38596
-----------------------------------------------------------------------------
Status:   Started         Loop ON, 5 cycles       VOLUME
          Playing >>>     Play all samples ON     L: ||||||||||          ( 50)
          In loop         Play all banks ON       R: ||||||||||          ( 50)
Latest request: Enable loop (5 cycles)
-----------------------------------------------------------------------------
SPACE:    Start/Pause     RIGHT:    Next sample   L: Short loop ON/Any loop OFF
R:        Restart         N/ENTER:  Next bank     E: Long  loop ON/Any loop OFF
S:        Stop            P/BACKSP: Prev bank     A: Play all samples ON/OFF
UP/PGUP:  Volume Up       F:        1st  bank     B: Play all banks   ON/OFF
DN/PGDN:  Volume Down

-----------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
-----------------------------------------------------------------------------
          |||||||||||||||||||||||||
```

11) We press "S" to stop the audio player. Note that the automatic sequential play of samples and banks is disabled after having pressed "S". Whether this should be done or not can be configured in the Audio Preferences. After the audio player has stopped playing, we press ENTER to jump to the next selected sound bank. *To jump to the next sample within the same sound bank, use the RIGHT arrow key. To reverse to previous samples, use the LEFT arrow key.*

```
                    PLAYING EMULATOR-II SAMPLE 2/10 (OF BANK 2/3)
-------------------------------------------------------------------------------
Sample:   S002
Bank:     Marcato Strg
File:     05 Marcato Strings.EII
Settings: MONO, 27778 Hz, 39685 sample points w/o offsets (voice settings)
          Loop (forw): 13240->39680
Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
          MONO, 27778 Hz, 39685 sample points, Loop (forw): 13240->39680
-------------------------------------------------------------------------------
Status:   Stopped        Loop ON, 5 cycles        VOLUME
                         Play all samples OFF     L: ||||||||||          ( 50)
                         Play all banks OFF       R: ||||||||||          ( 50)
Latest request: Stop playing sample
-------------------------------------------------------------------------------
SPACE:   Start/Pause     RIGHT:    Next sample    L: Short loop ON/Any loop OFF
R:       Restart         LEFT :    Prev sample    E: Long  loop ON/Any loop OFF
S:       Stop            HOME/DEL: 1st  sample    A: Play all samples ON/OFF
UP/PGUP: Volume Up       N/ENTER:  Next bank      B: Play all banks   ON/OFF
DN/PGDN: Volume Down     P/BACKSP: Prev bank
                         F:        1st  bank
-------------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
-------------------------------------------------------------------------------
                      Press one of the keys listed above: _
```

12) Since we have pressed ENTER, EMXP will prepare the audio of the third bank and launch the audio player. The player will not automatically start playing the samples of that bank though, since the automatic sequential play has been disabled.

```
                    PLAYING EMULATOR-II SAMPLE 1/10 (OF BANK 2/3)
-------------------------------------------------------------------------------
Sample:   S001
Bank:     Marcato Strg
File:     05 Marcato Strings.EII
Settings: MONO, 27778 Hz, 38601 sample points w/o offsets (voice settings)
          Loop (forw): 15428->38596
Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
          MONO, 27778 Hz, 38601 sample points, Loop (forw): 15428->38596
-------------------------------------------------------------------------------
Status:   Not started    Loop ON, 5 cycles        VOLUME
                         Play all samples OFF     L: ||||||||||          ( 50)
                         Play all banks OFF       R: ||||||||||          ( 50)
Latest request: Go to next bank (3/3)
-------------------------------------------------------------------------------
SPACE:   Start/Pause     RIGHT:    Next sample    L: Short loop ON/Any loop OFF
R:       Restart         P/BACKSP: Prev bank      E: Long  loop ON/Any loop OFF
S:       Stop            F:        1st  bank      A: Play all samples ON/OFF
UP/PGUP: Volume Up                                B: Play all banks   ON/OFF
DN/PGDN: Volume Down

-------------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
-------------------------------------------------------------------------------
                      Press one of the keys listed above:
```

13) Most samples of the third bank are not looped, so we disable loop playing by pressing "L".

```
                 PLAYING EMULATOR-II SAMPLE 1/22 (OF BANK 3/3)
-----------------------------------------------------------------------------
Sample:   S001
Bank:     Bass Synth 1
File:     06 Bass, Synth, Drums.EII
Settings: MONO, 27778 Hz, 29644 sample points w/o offsets (voice settings)
          Loop (forw): 27959->29639
Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
          MONO, 27778 Hz, 29644 sample points, Loop (forw): 27959->29639
-----------------------------------------------------------------------------
Status:   Not started    Loop OFF                 VOLUME
                         Play all samples OFF     L: ||||||||||          ( 50)
                         Play all banks OFF       R: ||||||||||          ( 50)
Latest request: Disable loop
-----------------------------------------------------------------------------
SPACE:   Start/Pause     RIGHT:    Next sample    L: Short loop ON/Any loop OFF
R:       Restart         P/BACKSP: Prev bank      E: Long  loop ON/Any loop OFF
S:       Stop            F:        1st  bank      A: Play all samples ON/OFF
UP/PGUP: Volume Up                                B: Play all banks   ON/OFF
DN/PGDN: Volume Down

-----------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
-----------------------------------------------------------------------------
                      Press one of the keys listed above:
```

14) We want to listen to all samples of the third bank, so we enable the sequential play mode by pressing "A". *By pressing "B" as well, we would not only enable the sequential play of samples within the same bank, but also the sequential play of all selected banks.* Note that we didn't re-start the audio player yet.

```
                 PLAYING EMULATOR-II SAMPLE 1/22 (OF BANK 3/3)
-----------------------------------------------------------------------------
Sample:   S001
Bank:     Bass Synth 1
File:     06 Bass, Synth, Drums.EII
Settings: MONO, 27778 Hz, 29644 sample points w/o offsets (voice settings)
          Loop (forw): 27959->29639
Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
          MONO, 27778 Hz, 29644 sample points, Loop (forw): 27959->29639
-----------------------------------------------------------------------------
Status:   Not started    Loop OFF                 VOLUME
                         Play all samples ON      L: ||||||||||          ( 50)
                         Play all banks OFF       R: ||||||||||          ( 50)
Latest request: Enable playing all samples
-----------------------------------------------------------------------------
SPACE:   Start/Pause     RIGHT:    Next sample    L: Short loop ON/Any loop OFF
R:       Restart         P/BACKSP: Prev bank      E: Long  loop ON/Any loop OFF
S:       Stop            F:        1st  bank      A: Play all samples ON/OFF
UP/PGUP: Volume Up                                B: Play all banks   ON/OFF
DN/PGDN: Volume Down

-----------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
-----------------------------------------------------------------------------
                      Press one of the keys listed above:
```

15) We re-start the audio player by pressing SPACE. *As an alternative we could also have pressed "R".*

```
                    PLAYING EMULATOR-II SAMPLE 2/22 (OF BANK 3/3)
--------------------------------------------------------------------------------
Sample:   S002
Bank:     Bass Synth 1
File:     06 Bass, Synth, Drums.EII
Settings: MONO, 27778 Hz, 25819 sample points w/o offsets (voice settings)
          Loop (forw): 25534->25814
Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
          MONO, 27778 Hz, 25819 sample points, Loop (forw): 25534->25814
--------------------------------------------------------------------------------
Status:   Started          Loop OFF                VOLUME
          Playing >>>      Play all samples ON     L: ||||||||||          ( 50)
                           Play all banks OFF      R: ||||||||||          ( 50)
Latest request: Start playing sample
--------------------------------------------------------------------------------
SPACE:    Start/Pause      RIGHT:    Next sample   L: Short loop ON/Any loop OFF
R:        Restart          LEFT :    Prev sample   E: Long  loop ON/Any loop OFF
S:        Stop             HOME/DEL: 1st  sample   A: Play all samples ON/OFF
UP/PGUP:  Volume Up        P/BACKSP: Prev bank     B: Play all banks   ON/OFF
DN/PGDN:  Volume Down      F:        1st  bank

--------------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
--------------------------------------------------------------------------------
                 |||||||||||||||||||||||||||||||||||||
```

16) While listening to the samples of the last sound bank, we decide to go back to the second sound bank and listen to those samples again. We press BACKSPACE to jump to the second bank. Note that the audio preparation message for the second bank will not be shown anymore, because the audio data of the previous banks are still in the disk cache of EMXP.

```
                    PLAYING EMULATOR-II SAMPLE 1/10 (OF BANK 2/3)
--------------------------------------------------------------------------------
Sample:   S001
Bank:     Marcato Strg
File:     05 Marcato Strings.EII
Settings: MONO, 27778 Hz, 38601 sample points w/o offsets (voice settings)
          Loop (forw): 15428->38596
Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
          MONO, 27778 Hz, 38601 sample points, Loop (forw): 15428->38596
--------------------------------------------------------------------------------
Status:   Started          Loop OFF                VOLUME
          Playing >>>      Play all samples ON     L: ||||||||||          ( 50)
                           Play all banks OFF      R: ||||||||||          ( 50)
Latest request: Go to previous bank
--------------------------------------------------------------------------------
SPACE:    Start/Pause      RIGHT:    Next sample   L: Short loop ON/Any loop OFF
R:        Restart          N/ENTER:  Next bank     E: Long  loop ON/Any loop OFF
S:        Stop             P/BACKSP: Prev bank     A: Play all samples ON/OFF
UP/PGUP:  Volume Up        F:        1st  bank     B: Play all banks   ON/OFF
DN/PGDN:  Volume Down

--------------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
--------------------------------------------------------------------------------
            |||||||||||
```

17) We leave the audio player by pressing ESCAPE. By leaving the audio player, the disk cache will be flushed. This means that if we want to listen to multiple sound banks, it's better to select all sound banks upfront and navigate through the banks *within the audio player* (by pressing ENTER and BACKSPACE) instead of returning to the bank overview list screen and selecting the next or previous bank(s).

```
                    PLAYING EMULATOR-II SAMPLE 4/10 (OF BANK 2/3)
 ---------------------------------------------------------------------------
 Sample:   S004
 Bank:     Marcato Strg
 File:     05 Marcato Strings.EII
 Settings: MONO, 27778 Hz, 36109 sample points w/o offsets (voice settings)
           Loop (forw): 12795->36104
 Playing:  on Speakers (Realtek High Definiti (32 buffers of 4096 bytes)
           MONO, 27778 Hz, 36109 sample points, Loop (forw): 12795->36104
 ---------------------------------------------------------------------------
 Status:   Started        Loop OFF                VOLUME
           Playing >>>    Play all samples ON     L: ||||||||||            ( 50)
                          Play all banks OFF      R: ||||||||||            ( 50)
 Latest request: Go to previous bank
 ---------------------------------------------------------------------------
 SPACE:   Start/Pause     RIGHT:    Next sample   L: Short loop ON/Any loop OFF
 R:       Restart         LEFT :    Prev sample   E: Long  loop ON/Any loop OFF
 S:       Stop            HOME/DEL: 1st  sample   A: Play all samples ON/OFF
 UP/PGUP: Volume Up       N/ENTER:  Next bank     B: Play all banks   ON/OFF
 DN/PGDN: Volume Down     P/BACKSP: Prev bank
                          F:        1st  bank
 ---------------------------------------------------------------------------
     [ESC] Leave audio player         [other] See above for other actions
 ---------------------------------------------------------------------------
           ||||||||||||||||||||||||||
```

18) This is the end of guided tour #16. To leave EMXP we have to press the ESCAPE button a few times.

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