Sp Junior Sp Classic Sp Gold Series

Voyetra

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Version 4

Quick Reference

Sequencer

Manual Rev 1.1

## Overview

Sequencer Plus (Sp) is a MIDI record, playback and editing program used to create and edit MIDI song files that can be played by Sp or a MIDI File player program. Sp is available in three different levels, called Sp Junior, Classic and Gold:

- Sp Junior An entry level sequencer that includes all the features required to create compositions for home studios, business and multimedia presentations.
- Sp Classic A professional grade sequencer with advanced features such as the ability to synchronize song file playback to an external sync source such as SMPTE, MTC, MIDI clock, etc..

Classic also offers a complete set of sophisticated MIDI editing and transform enhancements for global editing of MIDI data.

Sp Gold An integrated sequencer and MIDI network controller offers all of the advanced sequencing features of Classic in addition to a Universal Librarian and MIDI Data Analyzer.

> \* This Quick reference guide is designed for Sp Gold so that all of Sp's major features can be summarized. As such, some of the features listed may not pertain to Classic and Junior.



Comparison of Sp Series m	Junior	Classic	Gold
Number of Tracks			
Advanced Track Grouping	64	500	2000+
Multiple MIDI Port Support		-	
Matrix-style Port Assign Window			- 5
Universal Librarian		-	-
FM Voice Card Editor/ Librarian			
MIDI Network Organizer			
MIDI Data Analyzer			
Generic Sysex up/down load			
Advanced File Sorting functions			
Play list (jukebox) feature			
Multiple Time Signatures on multiple tracks			
Multiple Programmable Tempo-tracks			
SMPTE/ MTC Support		-	
Generate all 5 SMPTE tps rates			- 2
Full- Screen MTC Monitor			- 2
Full-Screen Bar Position Monitor			
DDL Calculator			- 2
On-Screen Vol and Pan per track		-	
On-screen Velocity offset per track			
Block Moves across tracks			-
Memory Butters	3	6	11
Tap Tempo (Fit improvisation)			
Beat Learn Mode			
Keyboard Step Entry Mode			
Super Quantize/ Swing			
Random Transforms			4
MIDI Transforms		12	12
Tempo Transforms		6	6
Pitch Transforms		5	5
Time Transforms		8	8
Velocity Transforms		7	7
Split Transforms		5	5
Misc Transforms		3	3
Metronome on PC Speaker			
Metronome as MIDI notes			-
Enhanced color screen options			-
QWERTY Keyboard Window			
Hardware Configuration Window			

## Hardware Requirements

Sequencer Plus Version 4 requires the following hardware:

- A PC based on the Intel 8088, 80286, 80386 or 80486 microprocessor that is software compatible with the IBM™ PC/XT/AT family of personal computers.
  - For best performance, it is recommended that Sp Classic and Gold be used on a PC based on the 80286, 80386 or 80486 microprocessors. Some of the advanced features can overtax the slower 8088 architecture.
- At least 512K of memory (RAM).
- DOS 2.0 or above.
- Sp Gold and Classic require a hard drive
- Any of the following video systems:
  - · IBM Monochrome display,
  - · Hercules graphics display,
  - IBM Color Graphics Adapter (CGA),
  - · Enhanced Graphics Adapter (EGA),
  - Video Graphics Array (VGA).
    - If you have an EGA or VGA display, Sp Gold will automatically switch into its High Resolution Mode, which shows substantially more information per screen.
- Sp also works with a mouse, however this is optional since all of the functions are accessible via keyboard commands.
- Sp may be used without a MIDI interface, but in order to record and play back via a MIDI keyboard, one of the following MIDI interfaces is required:
  - MPU-401<sup>™</sup> compatible MIDI interface, (eg. Voyetra 400x Series)
  - Voyetra V-22<sup>™</sup>/ V-24s<sup>™</sup> multi port MIDI interfaces
  - Sound Blaster<sup>™</sup> with MIDI option
  - IBM PS/1<sup>™</sup> with MIDI option
  - IBM Music Feature<sup>™</sup> Card
  - Yamaha C1<sup>™</sup>
  - Music Quest MQX-32<sup>™</sup>/MQX-16s<sup>™</sup>
  - Roland LAPC™

Sp will also play MIDI files on these PC sound cards:

- Sound Blaster<sup>™</sup> FM synthesizer
- AdLib<sup>™</sup> Card



Menu Help Highlight menu item, press the ? key (no need to shift) and a one-line description will appear in the menu area. To remove, press ? again.

Arrow keys Move the cursor around the computer screen in the direction of the arrow key.

+, -, [ and ] Step settings through their available ranges. Numerical settings can also be changed just by typing in new numbers with the number keys along the top of the keyboard.

Command Line Options To see a list of command line options, start the program with the /? option when typing the program name at the command line.

## Using a Mouse

First run the "mouse driver" program supplied with the mouse. If the mouse moves the cursor in Sp, then the mouse driver was installed properly. If not, try the mouse with another program that supports a mouse (there is probably a test program with the mouse package) to see if the mouse driver was installed properly.

#### The Mouse Menus

Simultaneously pressing the left and right buttons (or the center button, if your mouse has one) will open a mouse-specific window menu with commands and access to other controls (such as Function Keys). To select an item from a pop-up menu, position the cursor on top of the item you want to select and double click the left mouse button. To close the menu without selecting anything, either select the (Close menu) option, or double click the right button.

### **Mouse Actions**

Double clicking the left button is equivalent to pressing Enter.

Double-clicking the right button is equivalent to pressing Esc.

- Parameter values can be selected by dragging the mouse up or down while pressing the left button (+/- by 1) or the right button ()/( by 10).
- Mouse menus that have the "Start/Stop" option (space bar) have "Start/Stop" at the top of the menu. To start playing, bring up the mouse menu and double-click the left button.



# Summary of Function Keys

Key	Alone	With [Shift]
F1	Function Key Help	QWERTY synth
F2	Metronome On/Off	Metronome Window
F3	Options Window	Librarian Options
F4	Configuration Window	Markers Window
F5	Play Range	Programs List
F6	Sync Window	Display Setup
F7	Note Pad	Bar Sync
F8	Current Bar	Solo Current Track
F9	Chase Mode	MIDI Thru Status
F10	Quit	DDL Calculator

### Summary of Control Key Combinations

Key Combination	Function	
[Cti]-B	Backup Track	
[Cti]-C	Set MIDI Channel	
[Cti]-G	Go To Track	
[Ctl]-J	Jump To Track	
[Cti]-0	Set Port Number	
[Ctl]-P	Set Initial Pgm Number	
[Cti]-R	Record	

## Summary of Alt Key Combinations

Key Combination	Function Sync to internal PC clock Sync to MTC Sync to SPP Sync to SMPTE	
[Alt]-I [Alt]-M [Alt]-S [Alt]-T		
	For FM Sound Cards:	
[Alti]-D [Alti]-X	Toggle between Drum and Instrument Mode Toggle MIDI In/ Out	

# Summary of Screens

## (Esc brings back the previous screen.)

JnCl/Gold	Screen	creen To Access Function		
	Main	Sp boots with this screen	Provides an overview of track information and global control of song parameters such as mute, loop, tempo, volume, etc. Play/ record from beginning of song.	
	View	<v> from Main</v>	Overview of MIDI data contained in every measure of the song. Global cut/ paste of song sections. Transform functions. Play/ record from anywhere in song.	
	Edit	<e> from Main or View</e>	Edit, insert, move, etc. individual notes in each measure.	
	Note Edit	<n> from Edit</n>	Edit MIDI note data associated with each note in a measure.	
	MIDI Edit	<m> from Edit</m>	Edit non-note MIDI data in each measure	
	Step Record	<k> from Edit screen</k>	Enter notes from a MIDI keyboard in "step time" rather than real time.	
	Files	<f> from various screens</f>	Manage song, bank, notepad, etc. files.	
	Setup	<x> from Main</x>	Configure the MIDI instrument setup for proper program and bank settings.	
00	Arranger	<a> from Setup</a>	Manage program banks for MIDI devices and transfer program banks between an external MID device and the PC.	
	Grid/ Bulk/ Fmt	<mb from<br="">Setup, then toggle with D</mb>	View MIDI data in various formats.	
	MTC Monitor	<mb <br="" from="" grid="">Bulk or Fmt</mb>	Monitor MIDI Timecode entering the PC MIDI port.	
00	MIDI Output Strings	[Shift] with number key from Grid/ Bulk or Formatted	Used to assign a string of MIDI data to each of the ten number keys so they may be easily transmitted to control MIDI instruments.	
	Notepad	<f7></f7>	Enter text to be saved along with song data.	

# Summary of Windows

## (Esc closes a window)

Jr/Cl/Gold	Window	Enter From	Function
	Options	<f3> or <o> from Main, View or Edit Screens</o></f3>	Set time signatures, clock source, MIDI controller filters, Tempo track reference, lead-in measures, etc.
	Configuration	<f4></f4>	Control default values for file paths, screen size, printer port, etc.
	Display Setup	Shift <f6></f6>	Set up default screen colors
	Hardware Configuration	<h> from Options Window</h>	Shows MIDI interface configuration.
	Play Range	<f5></f5>	Play specified range of song repeatedly
	Sync	<f6></f6>	Controls SMPTE interface functions and other sync settings.
	Bar Number	<f8></f8>	Shows current bar #, beat #, SMPTE time.
	Librarian Options	Shift <f3></f3>	Set Librarian default values
	Punch-in	<p> from Main or View screens.</p>	Record a specified range of measures.
	Tempo Track	<t> from View Screen</t>	Enter tempo changes into the tempo reference track selected in the Options Window.
	Transforms	<x> from View screen.</x>	Access transform functions.
	Super Quantize	<s> from Transforms window.</s>	Controls advanced quantizing functions.
	Key Signature	<k> from Transforms window.</k>	Select key for Harmonic Transpose Transforms.
	DDL Calculator	Shift <f10></f10>	Shows number of ms/beat for a given tempo
	Markers	Shift <f4></f4>	Provides 10 user-definable song position markers.
	Metronome	Shift <f2></f2>	Controls metronome functions.
	MIDI Thru	Shift <f9> Port assignment settings for multi-port interface hardware and MIDI thru on/o (note: SpJr MIDI Thru is in Options W</f9>	
	QWERTY synth	Shift <f1></f1>	Play/ record notes from PC keyboard
	FM Voice Editor	<v> from bank arranger</v>	Edit PC bus-based FM synthesizer voice.
	Instruments	<l> from Setup</l>	Assign instruments to Setup.
	Banks	<b> from Setup</b>	Assign instrument program banks to Setup.
	Programs	<p> from Setup</p>	Assign instrument programs from a bank.

## Sequencer

The Sequencer is comprised of independent, polyphonic "tracks" which are used to record MIDI data generated by an external MIDI keyboard. Once MIDI data is in a track, it can be edited using the View and Edit screens to access individual note and non-note data. By assigning the MIDI data in each track to a different MIDI instrument sound, a complete, orchestrated "MIDI performance" can be created and saved to disk as a song file.

A MIDI song can be created in either "real time" or "non-real time". These two methods of MIDI data entry may be combined to realize virtually any performance. Once the MIDI data is entered, the song may be edited on a macro level or a micro scale with a "plano-rol!" style note display that does not require music reading skills.

- In real-time, the MIDI data generated by playing an external keyboard is recorded directly into the track as it is played on the keyboard. Because data is being recorded exactly as it is played, this method requires a certain amount of keyboard skills. Basically, "what you hear is what you played." Once the music is recorded, it may be edited to clean up mistakes or add more complex passages that cannot be entered in real time.
- In non-real time, the song is recorded at your own pace using one or more of several methods. When the notes are played back at normal tempo, they cannot be distinguished from those played in real time. The non-real time methods include:
  - The song tempo may be slowed down so that the music can played on the keyboard at a comfortable pace. When the song is sped up to normal tempo, the recorded passages sound as if they were played at a normal pace.
  - Notes may be entered one at a time in the Edit screens using the mouse or PC keyboard. This allows the greatest detail to be entered and is often used for "clean up" or editing tasks.
  - Step-time recording from the Step Record Screen allows notes and chords to be
    entered directly from the MIDI keyboard at a slow and methodical pace. As the
    notes are released, the cursor advances to the next rhythmic position ready to
    enter the next note or chord. This method allows for far more complex musical
    passages than may be humanly possible to play. In addition, individuals with little
    or no keyboard skills may create music as if they were virtuosos!

#### Files Screen (F from various screens):

This Files screen provides access to all of the file types used by Sp, including song files, notepad files, program bank files, etc.

Highlight the name, press <l>oad and <enter>. If a song is loaded press the <spacebar> to play it.</spacebar></enter></l>
Highlight the directory or drive in the list and press <enter>.</enter>
The Classic and Gold <j>ukebox command may be used to automatically play the list of songs in the order they appear. To use this command, Sp must be run with the /dir:xx command line option.</j>
The file type listed will depend upon the screen from which it was entered. For example, entering the Files screen from a sequencer screen will list song files, while entering from the Notepad ([Ctl]-F) will list text files. To change the type of files listed, use the <e>xtension command.</e>
By using MIDI files (".MID) instead of Sp files (".SNG) the data from two songs can be merged together. Sp Classic and Gold can also save and load individual tracks (".TRK).

	DOP Non 72848 Click BPN 112 CK:INTERNAL 1:8
Trk Name	Pt Ch Prg Trane Quant Loop Mute Offeet Vol Pan
2 Hiber	1 18 49 ON 0 1 0 49 8: 17 ON 27 .
3 Drum	• 1 11 49 8 ON
4 Plan	2 12 12
5 Plane	
	Brass 1 16 6 8: 14 MUTT +18 . Brass 1 16 6 16t 8:1 + 18 .
8 Low 1	Brass 1 4 2 1:81
9 Tence	2 5 62 8:1 + 43 .
18 Trung 11 Sax 5	ret 1 3 12
12 Sax	Oliss 1 7 6264
13	
14	
16	
	Nain Nonu
FILES I	arm Chase Delete Loop Mute Name Quit Record Solo Tempo EDIT H_MULTI OPTIONS PUNCH-IN VIEN
ranspose, off orts/ nannels/	p" of the Sequencer where the global track parameters are controlled set, program assignment, etc.). When using a PC sound card, (eg. Sound Blaster), the Port number determines whether the track data will be routed to external MIDI
ograms	synthesizers (Port 1) or internal FM sounds (Port 2). When a multi-port MIDI interface is used (eg. V-22, V-24s), the Port number determines which MIDI port the track data will be sent to.
	The channel setting determines which MIDI instruments will be player the track. The Program setting determines the sound played by the instrument or FM sound card by sending the appropriate program of message to the instrument assigned to the channel.
o record on e ghlighted ack	Press <r>ecord then the <spacebar>. When you're done, press the <spacebar> to stop recording. Press it again to playback all recorde tracks.</spacebar></spacebar></r>
	* When recording, the track's MIDI channel must match the instrument's transmit channel.
	* The Spacebar always starts and stops record/ playback.
o quantize, nute, anspose, tc	Highlight the appropriate function in the desired track and use $+ / - 1$ change the setting. (Use PgUp/PgDn to see tracks that aren't on the screen.)
iroup Commends	In Sp Gold, the <g>roup command activates a submenu for assignit tracks to one of 26 groups by using a letter (a - z) in the group colur Tracks with the same group letter can be controlled as a group and soloed, etc. together.</g>
onfiguratio	n Window (F4)
Sets the paths	s for song, help, notepad and librarian files. Press <8>ave to save the
ptions Wind	

5	ng MEMOP View Man (#3396 1 Click HTM 112 CK: INTERNAL 1-8
Teb	
each track. The recorded meas	Citick         1 is A 40         December 2           Wilat         1 is A 40         2           Druss         1 ii A 40         2           Plass         2 is 3         3           Plass         1 iz B 13         4           Plass         1 iz B 13         5           Plass         1 is C 6         6           High Pease         1 is B 6         7
contain MIDI da	ata, which do not and which have not yet been recorded. ws cut-and-paste of song sections to shorten or lengthen the song.
	* In View, song playback (Spacebar) and record (Ctrl-R) starts from the position of the cursor.
To expand the View screen	Use the <w>ldth command to toggle the View screen into expanded (72 bars) mode. This removes the track information on the left side of the screen.</w>
To "Cut and Paste" song sections	Use the memory buffers to move or copy a range of measures with the following commands: <c>opy, <d>elete, <i>nsert, <r>eplace, and <a>dd</a></r></i></d></c>
To Add/ Delete measures	Highlight the measure and use the Ins or Del keys. The <backspace> key deletes measures to the left of the cursor.</backspace>
To designate a Tempo Rèference track	Activate the Options Window (F3) to select the tempo reference track number. This is designated by a letter "T" in the Main and View screens.
To make dynamic Tempo changes	Tempo change events can be inserted into any track, however only one track may be used as the tempo reference track that determines how the song will speed up and slow down in response to the tempo events.
	Tempo changes can be entered by activating the <t>empo Track Window from Main or View, or from the MIDI edit screen by selecting the "Tempo" Class and manually inserting tempo events. Tempo transforms can also be used to alter the tempo in a selected range.</t>
To cut and paste blocks of song data:	The <b>lock command activates a sub-menu with commands used to add delete, copy or move a range of tracks. Press <c>opy, select the block with the arrow keys, then press <return>. Move the highlighted block to another location with the arrow keys and press <y>es to confirm. Other Block functions work similarly.</y></return></c></b>
Transforms Window (X from View):	Used for "global" edits on a highlighted region of tracks and measures. (equantize all of the MIDI notes in a range, reverse note order to play a section backwards, generate random melodies, compress volume, etc.)



### Note Edit Screen (N from Edit):

The <N>ote Edit screen shows detailed MIDI values for the highlighted note at the top of the Work Area. Press the Tab/ [Shift]Tab key to highlight the next / previous notes. Velocity for each note is also edited in this screen.

	Piano	NTH 112	CK : INTERNAL	11 -0	Han E	BAT.
Envire Time S Time U Freeman	ilg: 4/4 mite: 32ml	Kayboard Nota-trig: DN	CLEMENT NOTE STITUTES Unlocity: SS Off Vel: 64	Units: Start: Longth:	32ml 6 19	::
		11 OCTIVE S				1
		• • • • • • • • • • • • • • • • • • •			=	
1		Not	e Herns			_
Bee Ide	mials Burat	ions France Coto-	Bar Hit-point L	angth Note	tria	

### MIDI Edit Screen (M from Edit):

To edit non-note MIDI data in the measure shown by the Edit screen, enter the <M>IDI Edit screen. The bottom of the Work area shows non-note MIDI data such as pitch bends, program changes, controllers, aftertouch, etc. Notes in the MIDI edit screen cannot be edited, they are shown only to indicate the relative positioning of the non-note MIDI data with respect to the note data.



# Network Organizer

Sp Gold's Network Organizer is used to create "Setups" that are screen representations of the settings in your MIDI network. Patches for each instrument are saved as "banks." A Setup specifies which banks of patches are to be transferred from the PC's disk library to the instruments. Up to 32 different instruments may be automatically loaded and set with the sounds required for a particular performance. The settings for a "setup" are stored along with the song so that the instruments may be loaded with the proper sounds before the song begins.

### Setup Screen (X from Main):

Each of 32 lines is used to specify instrument type, MIDI channel, MODE, Program Bank and Program Number.

	inter Non 43600		
	Instrument Pt Ch Hode Bank ProgB Program Bill Units and 2 1 PULY STOCK 27 SynthBramet Bill Synth Sort 2 1 PULY STOCK 27 SynthBramet INSTRUCT 2 1 PULY STOCK 27 SynthBramet INSTRUCT 2 1 PULY STOCK 25 10 MISSI 11 INSTRUCT 2 1 PULY STOCK 25 10 MISSI 11 INSTRUCT 2 1 PULY STOCK 20		
To assign an Instrument to a line in the Setup	Press <i>nstrument to activate the Instrument List window. Highlight the instrument name, then press <return>.</return></i>		
To delete instruments from the Setup	Move the cursor anywhere on the instrument's line, then press <d>elete.</d>		
To set MIDI Channels	Highlight the Chan column and enter the instrument's MIDI channel numb using the +/- keys. MIDI channels on the setup lines must match the MID channels on the instruments in order for data transfer to occur.		
To assign a Bank to the Setup	Move the cursor to the row of the instrument and press <b>ank to activate the Banks window. This lists the names of the bank files available for the instrument assigned to the highlighted row. Highlight a Bank name and press <enter> to assign it to the Setup.</enter></b>		
To select Programs from the assigned Bank	Move the cursor to the row of the instrument and press <p>rogram. The Programs window shows the names of all the programs in the assigned Bank. Highlight a program, press <return> and the program number ar name appear on the setup screen.</return></p>		
To transmit the Setup	Press <t>ransmit to send parameters (program numbers, MIDI modes, etc.) to all of the devices in the MIDI network. Press F1 for Instrument Help, which provides the proper switch settings for the MIDI instrument in the highlighted row of the Setup.</t>		
To load a	Enter the <f>les screen from the Setup Screen and press <l>oad to loa</l></f>		

## Universal Librarian

Sp Gold's Universal Librarian is used for uploading, downloading, manipulating, naming and storing banks of patches from a list of over 130 pre-defined MIDI instruments. If an instruments is not on the predefined list, patches may be transferred by defining a "generic" instrument for the device.

With the Universal Librarian, the PC's hard disk may be used to eliminate RAM cartridges and cassettes that are normally used to swap sounds in a MIDI synthesizer.

### Bank Arranger Screen (A from Setup):

This screen is used for arranging program banks for the instrument assigned to the highlighted line in the Setup screen. Typically, a bank file is loaded into one or both sides of the screen and programs are swapped, moved, etc. between sides or within the same side to create a new arrangement of programs in the bank. This new arrangement is then saved to disk as a new bank file.

-	Bank B Instru	ASS1	nk Arranger	
BANK: BRSS1.B6 VOICE DATA TOTAL 1 2 2 BRSS1 1 2 3 BRSS1 1 2 3 BRSS1 1 3 4 BRSS1 1 4 5 BRSS1 1 4 5 BRSS1 1 6 7 BRSS1 1 6 7 BRSS1 1 6 9 BRSS1 1 9 10 BRSS1 1 19 11 BRSS1 111 11 BRSS1 112 13 BRSS1 113 14 BRSS1 113 14 BRSS1 113 14 BRSS1 116 16 BRSS1 116 16 BRSS1 116 17 BRSS1 116 18 BRSS1 116		631         1           254         1           254         1	BANK: GMINNL.B. VUICE DATA 1 Pig - Al 2 Cate 3 Specobird1 4 Specobird2 5 Specobird3 6 Red Kurz82 7 Raigun SDI 8 Marph Calt 9 Hilbilly 10 Marphitar 11 Mahlongup 14 Catgut 15 String73+1 16 String73+2 16 String73+2 16 String73+2	
	Auditi	e FILES OFTIONS VOICE-EDI	te Erase Name Receive Swap Transmit	
To load a bank of programs from disk		the Bank Arranger. If a b automatically load. Other display you want to load	he Setup Screen, then press <a>rranger to enter bank was specified on the Setup Screen, it will rwise, use the arrow keys to pick which side of the a bank into, then press <f>iles to enter the Files eys to select the bank you wish to load, and press</f></a>	
benk of programs se from the MIDI in: Instrument ch		<a>rranger to enter the select the side of the dis instructions about the ins</a>	Setup row for the instrument to be edited. Press Bank Arranger screen. Use the arrow keys to play in which to load bank. Press F1 for strument. Make sure the instrument settings and ss <r>eceive to upload programs from the</r>	
To send i Trigger N over the current M channel	lote	assigned to that MIDI ch	This lets you hear the sound of the instruments annel,. The pitch, velocity, and length of this trigge Librarian Options window [Shift]-F3.	
To enter the Librarian Options Window [Shift]-F3.		this ON makes the Trigg time anything is changed settings (pitch, duration, for various instruments a	low shows parameters for the Trigger Note. Setting er Note automatic: (i.e., a note will be sent every d in a setup or bank.) The other Trigger Note and velocity) adjust the Trigger Note as necessary and sounds. The arrow keys or the letters P, D, or ngs. Change values with +, -, [, or ] keys. Press the changes.	

the second s						
To audition a program in the Bank Arranger	Place the cursor on the program you wish to audition, then press <a>udition. The program is transmitted to the instrument's "scratch buffer" so it can be heard without altering the bank currently loaded in the instrument. (Not all instruments support this feature.)</a>					
To name (or rename) a program	Highlight name, press <n>ame and enter the name. Use the arrow keys to change programs while naming. Press <return> or ESC to return to normal program operation.</return></n>					
To swap programs in a bank	Highlight the first program to swap, press <s>wap <return>. (Or, use the arrow keys to select a range of programs to swap before pressing <return>). Use the Arrow keys to select a destination, then press <return>.</return></return></return></s>					
To copy programs from one bank to another	Same, except use <c>opy.</c>					
To erase programs from a bank	Same, except use <e>rase.</e>					
librarian Onl	Hanna Man davis ((Ob.)(h) EO)					

#### Librarian Options Window ((Shift) F3):

This window is used to set the librarian parameters such as trigger note values, automatic audition mode, etc.

TRIGGER note	10	Program CHINGES		
Trigger note FITCH	68	Automatic AUDITION	OFF	
Trigger note BUBATION	2~8081	INPUT Port for Upload	1	
Trigger note VELOCITY	127	RECEIVE Buffer Size	6X.	

Audition Changes Paration Insut-port Fitch Receive-Suffer Trigger-note

She three o	MIDI Data Analyzer
into a MIDI dia	I Data Analyzer provides a "window to the MIDI world" by turning the PC gnostic tool. It monitors MIDI network activity in three different display optimized for various methods of analyzing MIDI data.
from the PC ke	Analyzer also provides a way to transmit predefined strings of MIDI data byboard to directly control MIDI devices (eg. initiating a patch dump, etc.)
To enter the Grid Mode screen	Press M from the Setup screen. The Grid Mode screen is a table of 16 columns corresponding to 16 MIDI channels and 8 rows corresponding to the 8 types of channel-specific MIDI commands. Thus, generating channelized data (eg. pressing a button or key on a MIDI synth) appears in the column corresponding to the channel on which the data was transmitted from the instrument.
	For instance, if you press any key on a MIDI instrument, the pitch of the note appears in a box in the Note On row of the column corresponding to the instrument's MIDI Transmit channel setting. Releasing the key shows the same note number in the first row, which corresponds to Note Off for that channel.
To clear the Grid	Press <a>II-Reset at any time.</a>
To filter "active sensing" data	Use the <c>lock-Enable command.</c>
To enter the Formatted Trace mode screen	From Grid Mode, press <d>isplay. Play some notes and press a few buttons on your keyboard. You'll see descriptions of the MIDI messages, followed by the actual hex bytes received. As you play, the influx of MIDI data will start to scroll up as new commands push the old ones off the screen.</d>
To enter the Bulk Hex Mode screen	Press <d>isplay. This displays as much MIDI Data as will fit on the screen with the status bytes highlighted.</d>
To use History Mode	Press H and the status window at the top of the screen will indicate History: ON. Press PgUp/PgDn and you'll see the old MIDI information that scrolled off the screen. MIDI Terminal tells you if its input buffer overflows and if the history buffer is full. Use <a>II Reset if MIDI Terminal fills up with data.</a>
To send the contents of the History Buffer to an Instrument	Press <t>ransmit.</t>
To define MIDI byte strings	Press SHIFT and the number 1 key. This is the command to define MIDI string #1 on the #1 key. The other number keys 2 - 0 allow definition of midi strings #2 thru #10 in the same manner. The screen changes to show any previously defined strings along with the one currently being defined o edited in highlighted video. Type any sequence of hexadecimal bytes up to 22 bytes long, separated by spaces. The INS and DEL keys allow editing. Ctrl-End will clear to the end of the line. Press <return> when the string is correct or ESC to cancel the definition.</return>
To send a MIDI string	Press the number key used to define the string.
To activate the MIDI TIME CODE (MTC) Screen	Press <m> from any of the three MIDI terminal screen modes. Valid MTC entering the MIDI interface will be displayed.</m>



Grid Mode screen



Formatted Mode screen

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Bulk Mode screen



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