

in

COLLABORATORS

	<i>TITLE :</i> in		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY		March 28, 2025	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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Chapter 1

in

1.1 ModuleInformation

```
ShowModule v1.10 (c) 1992 $#%!
now showing: "libraries/midi.m"
NOTE: don't use this output in your code, use the module instead.
```

```
CONST MIDIVERSION=7,
      RIM_MAXCOUNT=3

(----) OBJECT rimatch
(  0)   flags:CHAR
(  1)   match:substructure
(----) ENDOBJECT      /* SIZEOF=4 */

CONST RIME_COUNTBITS=3,
      RIME_EXTID=$40,
      RIME_EXCLUDE=$80

(----) OBJECT mrouteinfo
(  0)   msgflags:INT
(  2)   chanflags:INT
(  4)   chanoffset:CHAR
(  5)   noteoffset:CHAR
(  6)   sysexmatch:substructure
( 10)   ctrlmatch:substructure
(----) ENDOBJECT      /* SIZEOF=14 */

CONST MMF_CHAN=$FF,
      MMF_NOTEOFF=1,
      MMF_NOTEON=2,
      MMF_POLYPRESS=4,
      MMF_CTRL=8,
      MMF_PROG=16,
      MMF_CHANPRESS=$20,
      MMF_PITCHBEND=$40,
      MMF_MODE=$80,
      MMF_SYSCOM=$100,
      MMF_SYSRT=$200,
      MMF_SYSEX=$400,
      MMF_ALL=$7FF
```

```
(----) OBJECT mrouteptr
( 0) mln:substructure
( 8) route:LONG
(----) ENDOBJECT /* SIZEOF=12 */

(----) OBJECT mroute
( 0) source:LONG
( 4) dest:LONG
( 8) srouteptr:substructure
(20) drouteptr:substructure
(32) routeinfo:substructure
(----) ENDOBJECT /* SIZEOF=46 */

(----) OBJECT msource
( 0) ln:substructure
(14) image:LONG
(18) rplist:substructure
(30) userdata:LONG
(34) routemsgflags:INT
(36) routechanflags:INT
(----) ENDOBJECT /* SIZEOF=38 */

CONST NT_MSOURCE=$20,
      NT_RESMSOURCE=$21

(----) OBJECT mdest
( 0) ln:substructure
(14) image:LONG
(18) rplist:substructure
(30) destport:LONG
(34) userdata:LONG
(38) defaultrouteinfo:substructure
(----) ENDOBJECT /* SIZEOF=52 */

CONST NT_MDEST=$22,
      NT_RESMDDEST=$23

(----) OBJECT midipacket
( 0) mn:substructure
(20) type:INT
(22) length:INT
(24) reserved:substructure
(28) midimsg:substructure
(----) ENDOBJECT /* SIZEOF=32 */

(----) OBJECT mlistsignal
( 0) mln:substructure
( 8) sigtask:LONG
(12) sigbit:CHAR
(13) flags:CHAR
(----) ENDOBJECT /* SIZEOF=14 */

CONST MLSF_SOURCE=1,
      MLSF_DEST=2,
      MS_NOTEON=$80,
      MS_NOTEOFF=$90,
```

```
MS_POLYPRESS=$A0,
MS_CTRL=$B0,
MS_MODE=$B0,
MS_PROG=$C0,
MS_CHANPRESS=$D0,
MS_PITCHBEND=$E0,
MS_SYSEX=$F0,
MS_QTRFRAME=$F1,
MS_SONGPOS=$F2,
MS_SONGSELECT=$F3,
MS_TUNEREQ=$F6,
MS_EOX=$F7,
MS_CLOCK=$F8,
MS_START=$FA,
MS_CONTINUE=$FB,
MS_STOP=$FC,
MS_ACTVSENSE=$FE,
MS_RESET=$FF,
MIDDLEC=$3C,
DEFAULTVELOCITY=$40,
PITCHBENDCENTER=$2000,
MCLKSPERQTR=24,
MCLKSPERSP=6,
MCCENTER=$40,
MC_MODWHEEL=1,
MC_BREATH=2,
MC_FOOT=4,
MC_PORTATIME=5,
MC_DATAENTRY=6,
MC_VOLUME=7,
MC_BALANCE=8,
MC_PAN=10,
MC_EXPRESSION=11,
MC_GENERAL1=16,
MC_GENERAL2=17,
MC_GENERAL3=18,
MC_GENERAL4=19,
MC_SUSTAIN=$40,
MC_PORTA=$41,
MC_SUSTENUTO=$42,
MC_SOFTPEDAL=$43,
MC_HOLD2=$45,
MC_GENERAL5=$50,
MC_GENERAL6=$51,
MC_GENERAL7=$52,
MC_GENERAL8=$53,
MC_EXTDEPTH=$5B,
MC_TREMOLODEPTH=$5C,
MC_CHORUSDEPTH=$5D,
MC_CELESTEDEPTH=$5E,
MC_PHASERDEPTH=$5F,
MC_DATAINCR=$60,
MC_DATADECR=$61,
MC_NRPNL=$62,
MC_NRPNH=$63,
MC_RPNL=$64,
MC_RPNH=$65,
```

```
MM_MAX=$78,  
MM_MIN=$79,  
MM_RESETCTRL=$79,  
MM_LOCAL=$7A,  
MM_ALLOFF=$7B,  
MM_OMNIOFF=$7C,  
MM_OMNION=$7D,  
MM_MONO=$7E,  
MM_POLY=$7F,  
MRP_PBSENS=0,  
MRP_FINETUNE=1,  
MRP_COURSETUNE=2,  
MTCQ_FRAMEL=0,  
MTCQ_FRAMEH=16,  
MTCQ_SECL=$20,  
MTCQ_SECH=$30,  
MTCQ_MINL=$40,  
MTCQ_MINH=$50,  
MTCQ_HOURL=$60,  
MTCQ_HOURH=$70,  
MTCQ_TYPEMASK=$70,  
MTCQ_DATAMASK=15,  
MTCH_TYPEMASK=$60,  
MTCH_HOURLMASK=31,  
MTCT_24FPS=0,  
MTCT_25FPS=$20,  
MTCT_30FPS_DROP=$40,  
MTCT_30FPS_NONDROP=$60,  
MID_XAMERICA=0,  
MID_SEQUENTIAL=1,  
MID_IDP=2,  
MID_OCTAVEPLATEAU=3,  
MID_MOOG=4,  
MID_PASSPORT=5,  
MID_LEXICON=6,  
MID_KURZWEIL=7,  
MID_FENDER=8,  
MID_AKG=10,  
MID_VOYCE=11,  
MID_WAVEFRAME=12,  
MID_ADA=13,  
MID_GARFIELD=14,  
MID_ENSONIQ=15,  
MID_OBERHEIM=16,  
MID_APPLE=17,  
MID_GREYMATTER=18,  
MID_PALMTREE=20,  
MID_JLCOOPER=21,  
MID_LOWREY=22,  
MID_ADAMSSMITH=23,  
MID_EMU=24,  
MID_HARMONY=25,  
MID_ART=26,  
MID_BALDWIN=27,  
MID_EVENTIDE=28,  
MID_INVENTRONICS=29,  
MID_CLARITY=31,
```

MIDX_DIGITALMUSIC=7,
MIDX_IOTA=8,
MIDX_IVL=11,
MIDX_SOUTHERNMUSIC=12,
MIDX_LAKEBUTLER=13,
MIDX_DOD=16,
MIDX_PERFECTFRET=20,
MIDX_OPCODE=22,
MIDX_SPATIALSOUND=24,
MIDX_KMX=25,
MIDX_AXXES=\$20,
MID_PASSAC=\$20,
MID_SIEL=\$21,
MID_SYNTHAXE=\$22,
MID_HOHNER=\$24,
MID_TWISTER=\$25,
MID_SOLTON=\$26,
MID_JELLINGHAUS=\$27,
MID_SOUTHWORTH=\$28,
MID_PPG=\$29,
MID_JEN=\$2A,
MID_SSL=\$2B,
MID_AUDIOVERITRIEB=\$2C,
MID_ELKA=\$2F,
MID_DYNACORD=\$30,
MID_KAWAI=\$40,
MID_ROLAND=\$41,
MID_KORG=\$42,
MID_YAMAHA=\$43,
MID_CASIO=\$44,
MID_MORIDAIRA=\$45,
MID_KAMIYA=\$46,
MID_AKAI=\$47,
MID_JAPANVICTOR=\$48,
MID_MEISOSHA=\$49,
MID_HOSHINOGAKKI=\$4A,
MID_FUJITSU=\$4B,
MID_SONY=\$4C,
MID_NISSHINONPA=\$4D,
MID_SYSTEMPRODUCT=\$4F,
MID_NC=\$7D,
MID_NRT=\$7E,
MID_RT=\$7F