in

COLLABORATORS

	TITLE : in		
ACTION	*NAME*	*DATE*	*SIGNATURE*
WRITTEN BY		July 26, 2024	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

Chapter 1

in

1.1 ModuleInformation

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

(----) OBJECT realtimebase
(   0)   lib:lib (or ARRAY OF lib)
(  34)   reserved0[2]:ARRAY OF CHAR
(  36)   time:LONG
(  40)   timefrac:LONG
(  44)   reserved1:INT
(  46)   tickerr:INT
(----) ENDOBJECT     /* SIZEOF=48 */

(----) OBJECT pmstate
(   0)   method:LONG
(   4)   oldstate:LONG
(----) ENDOBJECT     /* SIZEOF=8 */

(----) OBJECT pmtime
(   0)   method:LONG
(   4)   time:LONG
(----) ENDOBJECT     /* SIZEOF=8 */

(----) OBJECT player
(   0)   ln:ln (or ARRAY OF ln)
(  14)   reserved0:CHAR
(  15)   reserved1:CHAR
(  16)   hook:PTR TO hook
(  20)   source:PTR TO conductor
(  24)   task:PTR TO tc
(  28)   metrictime:LONG
(  32)   alarmtime:LONG
(  36)   userdata:LONG
(  40)   playerid:INT
(  42)   flags:INT
(----) ENDOBJECT     /* SIZEOF=44 */

(----) OBJECT conductor
```

```
(   0)    ln:ln (or ARRAY OF ln)
(  14)    reserved0:INT
(  16)    players:mlh (or ARRAY OF mlh)
(  28)    clocktime:LONG
(  32)    starttime:LONG
(  36)    externaltime:LONG
(  40)    maxexternaltime:LONG
(  44)    metronome:LONG
(  48)    reserved1:INT
(  50)    flags:INT
(  52)    state:CHAR
(----) ENDOBJECT       /* SIZEOF=54 */

CONST CONDUCTB_PRIVATE=3,
      CONDUCTF_PRIVATE=8,
      PLAYERB_ALARMSET=1,
      PLAYERF_ALARMSET=2,
      PLAYER_ERRORCODE=$8000004F,
      PLAYER_ALARMSIGTASK=$80000046,
      PLAYER_ALARMTIME=$8000004C,
      PLAYER_PRIORITY=$80000043,
      PLAYER_USERDATA=$8000004A,
      PM_STATE=1,
      PLAYER_EXTSYNC=$8000004E,
      PLAYERB_EXTSYNC=4,
      PLAYERF_EXTSYNC=16,
      PLAYER_QUIET=$80000049,
      PLAYERB_QUIET=2,
      PLAYERF_QUIET=4,
      PLAYER_BASE=$80000040,
      RTE_PLAYING=$324,
      RTE_NOCONDUCTOR=$322,
      PLAYER_CONDUCTOR=$80000044,
      CONDSTATE_PAUSED=1,
      CONDUCTB_EXTERNAL=0,
      CONDUCTF_EXTERNAL=1,
      RTE_NOTIMER=$323,
      PM_POSITION=2,
      PM_SHUTTLE=3,
      CONDSTATE_SHUTTLE=-2,
      REALTIME_TICKERR_MIN=$FFFFFD3F,
      PLAYER_READY=$80000045,
      PLAYERB_READY=0,
      PLAYERF_READY=1,
      PLAYER_ID=$8000004B,
      TICK_FREQ=$4B0,
      CONDSTATE_STOPPED=0,
      PM_TICK=0,
      CONDUCTB_GOTTICK=1,
      CONDUCTF_GOTTICK=2,
      RT_CONDUCTORS=0,
      PLAYER_CONDUCTED=$80000047,
      PLAYERB_CONDUCTED=3,
      PLAYERF_CONDUCTED=8,
      CONDSTATE_RUNNING=3,
      PLAYER_ALARM=$8000004D,
      CONDSTATE_LOCATE=2,
```

```
RTE_NOMEMORY=$321,
PLAYER_HOOK=$80000041,
PLAYER_ALARMSIGBIT=$80000048,
CONDSTATE_LOCATE_SET=-3,
CONDUCTB_METROSET=2,
CONDUCTF_METROSET=4,
REALTIME_TICKERR_MAX=$2C1,
PLAYER_NAME=$80000042,
CONDSTATE_METRIC=-1
```