

**in**

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

<b>REVISION HISTORY</b>
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NUMBER	DATE	DESCRIPTION	NAME

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# 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=$323,
      PM_POSITION=2,
      PM_SHUTTLE=3,
      CONDSTATE_SHUTTLE=-2,
      REALTIME_TICKERR_MIN=$FFFFFFD3F,
      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
```