

Timer

COLLABORATORS

	<i>TITLE :</i> Timer		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

Contents

1	Timer	1
1.1	Timer	1
1.2	TMP:Modula-2/Timer.def	1

Chapter 1

Timer

1.1 Timer

Prozeduren

AddTime
ReadEClock

CmpTime
SubTime

GetSysTime

Konstanten

addRequest
microHz
vBlank

eClock
setSysTime
waitEClock

getSysTime
timerName
waitUntil

Typ-Deklarationen

EClockVal
IOTimerPtr
TimeVal

EClockValPtr
TimeRequest
TimeValPtr

IOTimer
TimeRequestPtr

1.2 TMP:Modula-2/Timer.def

```
DEFINITION MODULE Timer; (*$ Implementation:=FALSE *)  
(* 10-Mar-1992/cn *)
```

```
FROM SYSTEM IMPORT ADDRESS;
```

```
FROM ExecD IMPORT  
  nonstd, IOREquest ;
```

```
IMPORT R;
```

```
CONST  
  timerName="timer.device";
```

```
  microHz=0;  
  vBlank=1;
```

```
(*36*) eClock=2;  
(*36*) waitUntil=3;  
(*36*) waitEClock=4;
```

```
TYPE  
  TimeVal =RECORD  
    secs:LONGCARD;  
    micro:LONGCARD;  
  END;  
  TimeValPtr =POINTER TO  TimeVal ;  
  
(*36*)  EClockVal =RECORD  
    hi,lo:LONGCARD;  
  END;  
(*36*)  EClockValPtr =POINTER TO  EClockVal ;
```

```
CONST  
  addRequest=nonstd+0;  
  getSysTime=nonstd+1;  
  setSysTime=nonstd+2;
```

```
TYPE  
  TimeRequest =RECORD  
    node: IORequest ;  
    CASE :INTEGER OF  
      |0: time: TimeVal ;  
      |1: eClock: EClockVal ;  
    END;  
  END;  
  TimeRequestPtr =POINTER TO  TimeRequest ;  
  
(* Synonyme zur einheitlichen Namensgebung *)  
  IOTimer = TimeRequest ;  
  IOTimerPtr = TimeRequestPtr ;
```

```
PROCEDURE  AddTime (  
  timer{R.A6}:ADDRESS;  
  dest{R.A0},source{R.A1}: TimeValPtr ); CODE -42;
```

```
PROCEDURE  CmpTime (  
  timer{R.A6}:ADDRESS;  
  dest{R.A0},source{R.A1}: TimeValPtr ):LONGINT; CODE -54;
```

```
PROCEDURE(*36*)  GetSysTime (  
  timer{R.A6}:ADDRESS;  
  VAR dest{R.A0}: TimeVal ); CODE -66;
```

```
PROCEDURE(*36*)  ReadEClock (  
  timer{R.A6}:ADDRESS;  
  VAR dest{R.A0}: EClockVal ):LONGCARD; CODE -60;
```

```
PROCEDURE  SubTime (  
  timer{R.A6}:ADDRESS;  
  dest{R.A0},source{R.A1}: TimeValPtr ); CODE -48;
```

```
END Timer.noimp
```
