

**Serial**

COLLABORATORS

	TITLE : Serial		
ACTION	NAME	DATE	SIGNATURE
WRITTEN BY		November 24, 2024	

REVISION HISTORY

NUMBER	DATE	DESCRIPTION	NAME

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## Chapter 1

# Serial

### 1.1 Serial

#### Konstanten

abort	active	break
bufrRead	defaultCtlChar	query
queued	select	serialName
setParams		

#### Typ-Deklarationen

Error	ExtSerFlagSet	ExtSerFlags
IOExtSer	IOExtSerPtr	IOSerial
IOSerialPtr	IOTArray	SerFlagSet
SerFlags	Status	StatusSet

### 1.2 TMP:Modula-2/Serial.def

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

```
FROM SYSTEM IMPORT ADDRESS, BYTE, LONGSET;
```

```
FROM ExecD IMPORT
  nonstd, IOFlagSet , IOStdReq ;
```

```
CONST
  serialName="serial.device";
```

```
query=nonstd;
break=nonstd+1;
setParams=nonstd+2;
```

```
active= IOFlagSet {4};
abort= IOFlagSet {5};
queued= IOFlagSet {6};
```

---

```

bufrRead= IOFlagSet {7};

defaultCtlChar=11130000H;

TYPE
    IOTArray =RECORD
        termArray0:LONGCARD;
        termArray1:LONGCARD;
    END;

TYPE
    SerFlags =(
        partyOn,partyOdd,sevenWire,queuedBrk
        ,radBoogie,shared,eofMode,xDisabled
    );
    SerFlagSet =SET OF  SerFlags ;

    ExtSerFlags =(
        mark,mSpOn,esf2,esf3,esf4,esf5,esf6,esf7,
        esf8,esf9,esf10,esf11,esf12,esf13,esf14,esf15,
        esf16
    );
    ExtSerFlagSet =SET OF  ExtSerFlags ;

    Status =(
        sta0,stal,ringIndicator,dataSetReady,clearToSend,carrierDetect
        ,readyToSend,dataTerminalReady,overrun,wroteBreak,readBreak
        ,xOffWrite,xOffRead
    );
    StatusSet =SET OF  Status ;

CONST
    select=ringIndicator;

TYPE
    Error =(
        e0,devBusy,baudMismatch,invBaud,bufErr,invParam,lineErr,notOpen
        ,portReset,parityErr,initErr,timerErr,bufOverflow,nodsr,nocts
        ,detectedBreak
    );

    IOExtSer =RECORD
        ioSer: IOStdReq ;
        ctlChar:LONGCARD;
        rBufLen:LONGCARD;
        extFlags: ExtSerFlagSet ;
        baud:LONGCARD;
        brkTime:LONGCARD;
        termArray: IOTArray ;
        readLen:SHORTCARD;
        writeLen:SHORTCARD;
        stopBits:SHORTCARD;
        serFlags: SerFlagSet ;
        status: StatusSet ;
    END;
    IOExtSerPtr =POINTER TO  IOExtSer ;

```

---

```
(*  
  Synonyme mit einheitlicher Namensgebung  
*)  
  IOSerial = IOExtSer ;  
  IOSerialPtr = IOExtSerPtr ;  
  
END Serial.noimp
```