

**Printer**

<b>COLLABORATORS</b>
----------------------

	<i>TITLE :</i> Printer		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
WRITTEN BY		July 22, 2024	

<b>REVISION HISTORY</b>
-------------------------

NUMBER	DATE	DESCRIPTION	NAME

# Contents

<b>1</b>	<b>Printer</b>	<b>1</b>
1.1	Printer . . . . .	1
1.2	TMP:Modula-2/Printer.def . . . . .	2

# Chapter 1

## Printer

### 1.1 Printer

#### Konstanten

bms	cam	den1
den2	den3	den4
den5	den6	density3
density5	density6	density7
densityMask	dimensionMask	dumpRPort
extend	fnt0	fnt1
fnt10	fnt2	fnt3
fnt4	fnt5	fnt6
fnt7	fnt8	fnt9
hts	ind	jfy0
jfy1	jfy3	jfy5
jfy6	jfy7	lms
nel	perf	perf0
pld	plu	printerName
prop0	prop1	prop2
prtCommand	query	raw
rawWrite	ri	rin
ris	rms	sbc
sfc	sgr0	sgr1
sgr22	sgr23	sgr24
sgr3	sgr4	shorp0
shorp1	shorp2	shorp3
shorp4	shorp5	shorp6
slpp	slrm	stbm
sus0	sus1	sus2
sus3	sus4	tbc0
tbc1	tbc3	tbc4
tbcall	tbsall	tms
tss	verp0	verp1
vtb		

#### Typ-Deklarationen

Error	IODRPReq	IODRPReqPtr
IOPrinter	IOPrinterPtr	IOPrCmdReq
IOPrCmdReqPtr	PrinterIO	PrinterIOPtr

Special

SpecialSet

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

```
DEFINITION MODULE Printer; (*$ Implementation:=FALSE *)
(* 07-May-1992/cn 16-Aug-92/bp *)

FROM ExecD IMPORT
  nonstd, DevicePtr , IOFlagSet , Message , UnitPtr , IORequest ;

FROM GraphicsD IMPORT
  ColorMapPtr , RastPortPtr , ViewModeSet ;

CONST
  printerName="printer.device";

  rawWrite=nonstd+0;
  prtCommand=nonstd+1;
  dumpRPort=nonstd+2;
  query=nonstd+3;

  ris=0;
  rin=1;
  ind=2;
  nel=3;
  ri=4;
  sgr0=5;
  sgr3=6;
  sgr23=7;
  sgr4=8;
  sgr24=9;
  sgr1=10;
  sgr22=11;
  sfc=12;
  sbc=13;
  shorp0=14;
  shorp2=15;
  shorp1=16;
  shorp4=17;
  shorp3=18;
  shorp6=19;
  shorp5=20;
  den6=21;
  den5=22;
  den4=23;
  den3=24;
  den2=25;
  den1=26;
  sus2=27;
  sus1=28;
  sus4=29;
  sus3=30;
  sus0=31;
  plu=32;
  pld=33;
```

---

```
fnt0=34;
fnt1=35;
fnt2=36;
fnt3=37;
fnt4=38;
fnt5=39;
fnt6=40;
fnt7=41;
fnt8=42;
fnt9=43;
fnt10=44;
prop2=45;
prop1=46;
prop0=47;
tss=48;
jfy5=49;
jfy7=50;
jfy6=51;
jfy0=52;
jfy3=53;
jfy1=54;
verp0=55;
verp1=56;
slpp=57;
perf=58;
perf0=59;
lms=60;
rms=61;
tms=62;
bms=63;
stbm=64;
slrm=65;
cam=66;
hts=67;
vts=68;
tbc0=69;
tbc3=70;
tbc1=71;
tbc4=72;
tbcall=73;
tbsall=74;
extend=75;
raw=76;
```

TYPE

```
Error = (
    noErr, cancel, notGraphics, invertHam, badDimension,
    dimensionOvflow, internalMemory, bufferMemory, tookControl
);
IOPrCmdReq = RECORD
    message: Message ;
    device: DevicePtr ;
    unit: UnitPtr ;
    command: CARDINAL;
    flags: IOFlagSet ;
    error: Error ;
    prtCommand: CARDINAL;
```

---

```

    parm0:SHORTCARD;
    parm1:SHORTCARD;
    parm2:SHORTCARD;
    parm3:SHORTCARD;
END;
    IOPrtCmdReqPtr =POINTER TO   IOPrtCmdReq ;

    Special =(
    milCols,milRows,fullCols,fullRows,fracCols,fracRows,center,aspect,
    density1,density2,density4,noFormFeed,trustMe,noPrint,s14,s15
    );
    SpecialSet =SET OF   Special ;

CONST
    density3= SpecialSet {density1,density2};
    density5= SpecialSet {density1,density4};
    density6= SpecialSet {density2,density4};
    density7= SpecialSet {density1..density4};

    densityMask= SpecialSet {density1..density4};

    dimensionMask= SpecialSet {milCols..fracRows,aspect};

TYPE
    IODRPreq =RECORD
    message: Message ;
    device: DevicePtr ;
    unit: UnitPtr ;
    command:CARDINAL;
    flags: IOFlagSet ;
    error: Error ;
    rastPort: RastPortPtr ;
    colorMap: ColorMapPtr ;
    modesHi:CARDINAL;      (* muss auf 0 gesetzt werden! *)
    modes: ViewModeSet ;
    srcX:CARDINAL;
    srcY:CARDINAL;
    srcWidth:CARDINAL;
    srcHeight:CARDINAL;
    destCols:LONGINT;
    destRows:LONGINT;
    special: SpecialSet ;
END;
    IODRPreqPtr =POINTER TO   IODRPreq ;

PrinterIO  = RECORD
    CASE :INTEGER OF
    | 0: ios:      IORequest ;
    | 1: iodrp:   IODRPreq ;
    | 2: iopc:    IOPrtCmdReq ;
    END;
END;
    PrinterIOPtr  = POINTER TO   PrinterIO ;

(*
Synonyme mit einheitlicher Namensgebung
*)

```

---

---

```
IOPrinter = IOPrtCmdReq ;  
IOPrinterPtr = IOPrtCmdReqPtr ;  
  
END Printer.noimp
```