

**Narrator**

<b>COLLABORATORS</b>
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	<i>TITLE :</i> Narrator		
<i>ACTION</i>	<i>NAME</i>	<i>DATE</i>	<i>SIGNATURE</i>
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<b>REVISION HISTORY</b>
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NUMBER	DATE	DESCRIPTION	NAME

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## Chapter 1

# Narrator

### 1.1 Narrator

#### Konstanten

cantAlloc	centPhonErr	dCentErr
defArtic	defCentral	defF0Enthus
defF0Pert	defFreq	defMode
defPitch	defPriority	defRate
defSex	defVol	expunged
female	freqErr	makeBad
male	manual	maxCent
maxFreq	maxPitch	maxRate
maxVol	minCent	minFreq
minPitch	minRate	minVol
modeErr	narratorName	natural
noAudLib	noMem	noWrite
phonErr	pitchErr	rateErr
robotic	sexErr	unimpl
unitErr	volErr	

#### Typ-Deklarationen

IONarrator	IONarratorPtr	IONewNarrator
IONewNarratorPtr	Mouth	MouthPtr
Narrator	NarratorFlagSet	NarratorFlags
NarratorPtr	NewMouth	NewMouthPtr
NewNarrator	NewNarratorPtr	

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

```
DEFINITION MODULE Narrator ; (*$ Implementation:=FALSE *)
(* 05-May-92/cn *)
```

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

```
FROM ExecD
IMPORT IOStdReq ;
```

```
CONST
  narratorName="narrator.device";

  noMem=-2;
  noAudLib=-3;
  makeBad=-4;
  unitErr=-5;
  cantAlloc=-6;
  unimpl=-7;
  noWrite=-8;
  expunged=-9;
  phonErr=-20;
  rateErr=-21;
  pitchErr=-22;
  sexErr=-23;
  modeErr=-24;
  freqErr=-25;
  volErr=-26;
  dCentErr=-27;
  centPhonErr=-28;

  defPitch=110;
  defRate=150;
  defVol=64;
  defFreq=22200;
  male=0;
  female=1;
  natural=0;
  robotic=1;
  manual=2;
  defSex=male;
  defMode=natural;
  defArtic=100;
  defCentral=0;
  defF0Pert=0;
  defF0Enthus=32;
  defPriority=100;

  minRate=40;
  maxRate=400;
  minPitch=65;
  maxPitch=320;
  minFreq=5000;
  maxFreq=28000;
  minVol=0;
  maxVol=64;
  minCent=0;
  maxCent=100;

TYPE
  NarratorFlags =(newIORB,wordSync,sylSync,nf3,nf4,nf5,nf6,nf7);
  NarratorFlagSet =SET OF NarratorFlags ;

(*
  Eine 1:1 Umsetzung der C-Schnittstelle wäre zwar möglich,
  führte jedoch dazu, daß Programme, die dies Modul importieren,
```

---

unter Kickstart 1.3 nicht mehr laufen!

Das Device ab Version 36/37 sieht in der Mouth-Message die eingetragene Länge an und füllt entsprechend die Felder width, height, shape und pad aus.

Für die vom Device angenommene Größe des Mouth-RECORDs ist allein der in voice.message.message.length eingetragene Wert (wird durch CreateExtIO() eingetragen!) maßgebend, die voice.flags haben hier keinen Einfluß"

\*)

```
Narrator =RECORD
message: IOStdReq ;
rate:CARDINAL;
pitch:CARDINAL;
mode:CARDINAL;
sex:CARDINAL;
chMasks:ADDRESS;
nmMasks:CARDINAL;
volume:CARDINAL;
sampFreq:CARDINAL;
mouths:SHORTCARD;
chanMask:SHORTCARD;
numChan:SHORTCARD;
(*37*) flags: NarratorFlagSet ;
END;
NarratorPtr =POINTER TO  Narrator ;
```

```
NewNarrator =RECORD
message: IOStdReq ;
rate:CARDINAL;
pitch:CARDINAL;
mode:CARDINAL;
sex:CARDINAL;
chMasks:ADDRESS;
nmMasks:CARDINAL;
volume:CARDINAL;
sampFreq:CARDINAL;
mouths:SHORTCARD;
chanMask:SHORTCARD;
numChan:SHORTCARD;
(*37*) flags: NarratorFlagSet ;
(*36*) f0Enthusiasm:SHORTCARD;
(*36*) f0Perturb:SHORTCARD;
(*36*) f1Adj:SHORTINT;
(*36*) f2Adj:SHORTINT;
(*36*) f3Adj:SHORTINT;
(*36*) a1Adj:SHORTINT;
(*36*) a2Adj:SHORTINT;
(*36*) a3Adj:SHORTINT;
(*36*) articulate:SHORTCARD;
(*36*) centralize:SHORTCARD;
(*36*) centphon:ADDRESS;
(*36*) avBias:SHORTINT;
(*36*) afBias:SHORTINT;
(*36*) priority:SHORTINT;
```

---

```
(*36*)pad1:SHORTINT;
END;
NewNarratorPtr =POINTER TO  NewNarrator ;

Mouth =RECORD
voice: Narrator ;
width:SHORTCARD;
height:SHORTCARD;
shape:BYTE;
pad:BYTE;
END;
MouthPtr =POINTER TO  Mouth ;

NewMouth =RECORD
voice: NewNarrator ;
width:SHORTCARD;
height:SHORTCARD;
shape:BYTE;
(*37*)sync: NarratorFlagSet ;
END;
NewMouthPtr =POINTER TO  NewMouth ;

(*
Synonyme mit einheitlicher Namensgebung
*)
IONarrator = Narrator ;
IONarratorPtr = NarratorPtr ;
IONewNarrator = NewNarrator ;
IONewNarratorPtr = NewNarratorPtr ;

END  Narrator .noimp
```

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