

**in**

<b>COLLABORATORS</b>
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	TITLE :  in		
ACTION	NAME	DATE	SIGNATURE
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: "devices/narrator.m"
NOTE: don't use this output in your code, use the module instead.
```

```
(----) OBJECT mrb
(  0)   ndi:ndi (or ARRAY OF ndi)
( 88)   width:CHAR
( 89)   height:CHAR
( 90)   shape:CHAR
( 91)   sync:CHAR
(----) ENDOBJECT      /* SIZEOF=92 */

(----) OBJECT ndi
(  0)   iostd:iostd (or ARRAY OF iostd)
( 48)   rate:INT
( 50)   pitch:INT
( 52)   mode:INT
( 54)   sex:INT
( 56)   chmasks:PTR TO CHAR
( 60)   nummasks:INT
( 62)   volume:INT
( 64)   sampfreq:INT
( 66)   mouths:CHAR
( 67)   chanmask:CHAR
( 68)   numchan:CHAR
( 69)   flags:CHAR
( 70)   f0enthusiasm:CHAR
( 71)   f0perturb:CHAR
( 72)   fladj:CHAR
( 73)   f2adj:CHAR
( 74)   f3adj:CHAR
( 75)   aladj:CHAR
( 76)   a2adj:CHAR
( 77)   a3adj:CHAR
( 78)   articulate:CHAR
( 79)   centralize:CHAR
( 80)   centphon:PTR TO CHAR
( 84)   avbias:CHAR
```

```
( 85)    afbias:CHAR
( 86)    priority:CHAR
( 87)    pad1:CHAR
(----) ENDOBJECT      /* SIZEOF=88 */
```

```
CONST MAXPITCH=$140,
      MINPITCH=$41,
      DEFPITCH=$6E,
      MAXCENT=$64,
      MINCENT=0,
      ND_NOWRITE=-8,
      ND_UNIMPL=-7,
      DEFPRIORITY=$64,
      ND_NOMEM=-2,
      NDF_SYLSYNC=4,
      NDF_WORDSYNC=2,
      NDB_SYLSYNC=2,
      NDB_WORDSYNC=1,
      ND_CANTALLOC=-6,
      ND_NOAUDLIB=-3,
      ND_NOTUSED=-1,
      DEFF0PERT=0,
      ND_MODEERR=-24,
      ND_RATEERR=-21,
      MAXRATE=$190,
      MINRATE=$28,
      DEFRATE=$96,
      ND_MAKEBAD=-4,
      DEFCENTRAL=0,
      ND_CENTPHONERR=-28,
      ND_PHONERR=-20,
      FEMALE=1,
      MALE=0,
      ROBOTICF0=1,
      MAXFREQ=$6D60,
      MINFREQ=$1388,
      DEFFREQ=$56B8,
      DEFARTIC=$64,
      ND_SEXERR=-23,
      ND_PITCHERR=-22,
      MINVOL=0,
      ND_VOLERR=-26,
      NDF_NEWIORB=1,
      NDB_NEWIORB=0,
      DEFMODE=0,
      ND_FREQERR=-25,
      MANUALF0=2,
      NATURALF0=0,
      MAXVOL=$40,
      DEFSEX=0,
      DEFF0ENTHUS=$20,
      ND_EXPUNGED=-9,
      DEFVOL=$40,
      ND_DCENTERR=-27,
      ND_UNITERR=-5
```