

Conversions

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| COLLABORATORS |
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| | <i>TITLE :</i> Conversions | | |
| <i>ACTION</i> | <i>NAME</i> | <i>DATE</i> | <i>SIGNATURE</i> |
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| REVISION HISTORY |
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Chapter 1

Conversions

1.1 Conversions

Prozeduren

StrToVal

ValToStr

1.2 TMP:Modula-2/Conversions.def

```
DEFINITION MODULE Conversions; (* jr/17mai87 *)
(*$ NameChk:=FALSE *)
```

```
PROCEDURE StrToVal(
    VAR s: ARRAY OF CHAR;
    VAR l: LONGINT;
    VAR signed: BOOLEAN;
    base: INTEGER;
    VAR err: BOOLEAN);
```

(* Converts a string 's' with base 'base' to value 'l'.

Possible error conditions:

- illegal 'base'
- some characters in 's' are illegal digits to 'base'
- the resulting value is too large for a LONGINT

*)

```
PROCEDURE ValToStr(
    l: LONGINT;
    signed: BOOLEAN;
    VAR s: ARRAY OF CHAR;
    base,
    width: INTEGER;
    fillC: CHAR;
    VAR err: BOOLEAN);
```

(* Converts value 'l' with base 'base' to output string

's'. The value will be positioned within a field of size 'width'. If 'width' is larger than the needed amount of characters to represent 'l', the field is filled up with 'fillC'.

'width'>0: number is right adjusted

'width'<0: number is left adjusted

Possible error conditions:

- illegal 'base'

- 's' is too small

*)

END Conversions.def
