

## **FFPConversions**

<b>COLLABORATORS</b>
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	<i>TITLE :</i> FFPConversions		
<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

# FFPConversions

### 1.1 FFPConversions

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RealToStr

StrToReal

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

```
DEFINITION MODULE FFPConversions; (* jr/28mai87 *)
(*$ NameChk:=FALSE *)

FROM SYSTEM IMPORT FFP;

PROCEDURE StrToReal(VAR s: ARRAY OF CHAR; VAR r: FFP;
                    VAR err: BOOLEAN);

(* Converts input string 's' to a FFP number 'r'.

Possible error conditions:
- 's' has a syntactical error
- 'r' would be too large for a FFP
*)

PROCEDURE RealToStr(r: FFP;
                    VAR s: ARRAY OF CHAR;
                    m, n: INTEGER;
                    expo: BOOLEAN;
                    VAR err: BOOLEAN);

(* Converts the FFP number 'r' to output string 's'. The
output string will have a length of EXACTLY 'm'
characters (or length of 's' if 'm' is too large).
'n' is the number of places behind the decimal point.
If 'n' is too large in respect to 'm' it will be
shortened to the maximum possible.If 'n' is zero then
the decimal point will be omitted. With 'expo' you
```

can choose the exponential mode of output.

A few examples:    r=12.976    m    n    expo    s

	5	2	FALSE	'12.98'
	4	2	FALSE	'13.0'
3	2	FALSE	'13'	
2	2	FALSE	'13'	
1	2	FALSE	# err #	
	-8	2	FALSE	'12.98    '
	10	2	TRUE	'1.30E+01'

Possible error conditions:

- 'm' is zero OR 'n' is negative
- 's' is too small to hold the string representing 'r'

\*)

END FFPConversions.