

String

COLLABORATORS

	TITLE : String		
ACTION	NAME	DATE	SIGNATURE
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REVISION HISTORY

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Chapter 1

String

1.1 String

Prozeduren

ANSICap	ANSICapString	BStrToStr
CanConcat	CanConcatChar	CanCopy
CanCopyPart	CanCopyPos	CanInsert
CapString	Compare	ComparePart
Concat	ConcatChar	Copy
CopyPart	CopyPos	Delete
DeleteChar	FirstPos	Insert
LLength	LastPos	Length
Occurs	StrToBStr	

Konstanten

first	last	noOccur
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1.2 TMP:Modula-2/String.def

```
DEFINITION MODULE String;
(*$ NameChk:=FALSE *)
(*
 * 26.8.90/bp
 * Module Str und Strings zusammengefasst und erweitert.
 * Alle Zuweisungen schließen garantiert mit 0C ab!
 *)
CONST
  first=0;
  last=-1;
  (* Resultat von FirstPos, LastPos, Occurs: *)
  noOccur=-1;

(* ---- Str + Erweiterungen ---- *)
PROCEDURE Length(str:ARRAY OF CHAR):INTEGER;
PROCEDURE LLength(str:ARRAY OF CHAR):LONGINT;
```

```
(* Nur TRUE, wenn noch 0C ans Ende paßt! *)
PROCEDURE CanCopyPos(VAR dest:ARRAY OF CHAR;
                    src:ARRAY OF CHAR;
                    destPos:LONGCARD):BOOLEAN;
PROCEDURE CopyPos(VAR dest:ARRAY OF CHAR;
                 src:ARRAY OF CHAR;
                 destPos:LONGCARD);

PROCEDURE CanCopy(VAR dest: ARRAY OF CHAR;
                 src:ARRAY OF CHAR):BOOLEAN;
PROCEDURE Copy(VAR dest: ARRAY OF CHAR;
              src:ARRAY OF CHAR);

PROCEDURE CanConcat(VAR dest: ARRAY OF CHAR;
                  src:ARRAY OF CHAR):BOOLEAN;
PROCEDURE Concat(VAR dest: ARRAY OF CHAR;
                src:ARRAY OF CHAR);

PROCEDURE Compare(str1,str2:ARRAY OF CHAR):LONGINT;

PROCEDURE FirstPos(str:ARRAY OF CHAR; from{2}:LONGCARD;
                  ch{3}:CHAR):LONGINT;
PROCEDURE LastPos(str:ARRAY OF CHAR; to{2}:LONGCARD;
                  ch{3}:CHAR):LONGINT;

PROCEDURE CapString(VAR str: ARRAY OF CHAR);
PROCEDURE ANSICap(ch{0}:CHAR):CHAR;
PROCEDURE ANSICapString(VAR str: ARRAY OF CHAR);

(* ---- Strings + Erweiterungen ---- *)
PROCEDURE Occurs(VAR str:ARRAY OF CHAR; from:INTEGER;
                token:ARRAY OF CHAR;
                caseSens:BOOLEAN):INTEGER;

PROCEDURE CanInsert(VAR str: ARRAY OF CHAR;
                   at:INTEGER;
                   token:ARRAY OF CHAR):BOOLEAN;

(* ACHTUNG: Wenn str und token identisch: Fehler! *)
PROCEDURE Insert (VAR str: ARRAY OF CHAR;
                 at:INTEGER; token:ARRAY OF CHAR);

PROCEDURE Delete(VAR str:ARRAY OF CHAR;
                start,length:INTEGER);

PROCEDURE CanCopyPart(VAR dest:ARRAY OF CHAR;
                    src:ARRAY OF CHAR;
                    start,length:INTEGER):BOOLEAN;
PROCEDURE CopyPart(VAR dest:ARRAY OF CHAR;
                  src:ARRAY OF CHAR;
                  start,length:INTEGER);

PROCEDURE ComparePart(VAR str:ARRAY OF CHAR;
                    start, length:INTEGER;
                    token:ARRAY OF CHAR;
                    caseSens:BOOLEAN):INTEGER;
```

```
(* ---- neu ---- *)  
  
PROCEDURE CanConcatChar(VAR str:ARRAY OF CHAR;  
                        ch:CHAR):BOOLEAN;  
  
PROCEDURE ConcatChar(VAR str:ARRAY OF CHAR; ch:CHAR);  
  
PROCEDURE DeleteChar(VAR str:ARRAY OF CHAR; pos:INTEGER);  
  
PROCEDURE BStrToStr(VAR str:ARRAY OF CHAR);  
PROCEDURE StrToBStr(VAR str:ARRAY OF CHAR);  
  
END String.
```
