

String Library#

(c) 1991 Carsten Strotmann

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*****
**
** Phoenix SoftCrew ACTION! **
** Programme und Tips f. 8Bit **
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*****

; Programmname:Stringroutinen
; Programmierer:Carsten Strotmann
; Filename:STRING.ACT
; erste Version:
; letzte Aenderung:
; Zweck:
; Bemerkung:
; benoetigt DIVERS.ACT
;

; INCLUDE "DIVERS.ACT"

BYTE FUNC Find (BYTE ARRAY str2,str1)

    BYTE len1,len2,z1,z2,flg,pos

    IF str1(0)>=str2(0) THEN
        len2=str2(0)
        len1=str1(0)
        len1==--len2+1
        z1=0
        z2=0
        DO
            flg=$FF
            z1==+1
            FOR z2=1 to len2
                DO
                    IF str1(z1+z2-1)#str2(z2) THEN
                        flg=0
                    FI
                OD
            UNTIL z1=len1 OR flg#0
        OD
        IF flg#0 THEN
            pos=z1
        ELSE
            pos=0
        FI
    ELSE
        pos=0
    FI

RETURN (pos)

;-----

PROC Hex (CARD value,BYTE ARRAY hex)
```

```
BYTE u,v1,v2
```

```
BYTE ARRAY hexx ($10)=~['0 '1 '2 '3 '4 '5 '6 '7 '8 '9 'A 'B 'C 'D 'E 'F]
```

```
v1=value RSH 8
```

```
v2=value
```

```
u=v1 RSH 4
```

```
hex(1)=hexx(u)
```

```
u=v1 MOD $10
```

```
hex(2)=hexx(u)
```

```
u=v2 RSH 4
```

```
hex(3)=hexx(u)
```

```
u=v2 MOD $10
```

```
hex(4)=hexx(u)
```

```
hex(0)=4
```

```
IF v1=0 THEN
```

```
  hex(1)=hex(3)
```

```
  hex(2)=hex(4)
```

```
  hex(0)=2
```

```
FI
```

```
RETURN
```

```
;-----
```

```
CARD FUNC Dec (BYTE ARRAY hexc)
```

```
BYTE v1,v2,pos
```

```
BYTE ARRAY such(2),hexd($11)
```

```
CARD result
```

```
pos=1
```

```
v1=0
```

```
v2=0
```

```
Scopy (hexd,"0123456789ABCDEF")
```

```
IF hexc(0)=4 THEN
```

```
  such(0)=1
```

```
  such(1)=hexc(pos)
```

```
  v1=Find (such,hexd)-1
```

```
  v1==*$10
```

```
  pos==+1
```

```
  such(1)=hexc(pos)
```

```
  v1==+Find (such,hexd)-1
```

```
  pos==+1
```

```
FI
```

```
IF hexc(0)=4 OR hexc(0)=2 THEN
```

```
  such(0)=1
```

```
  such(1)=hexc(pos)
```

```
  v2=Find (such,hexd)-1
```

```
  v2==*$10
```

```
  pos==+1
```

```
  such(1)=hexc(pos)
```

```
  v2==+Find (such,hexd)-1
```

```
FI
```

```

    result=v1
    RESULT==*$100
    result==+v2

RETURN (result)

;-----

PROC Upper (BYTE ARRAY text)

    BYTE u

    FOR u=1 TO text(0)
    DO
        IF text(u)>$60 AND text(u)<$7B THEN
            text(u)=-$20
        FI
    OD

RETURN

;-----

PROC Lower (BYTE ARRAY text)

    BYTE u

    FOR u=1 TO text(0)
    DO
        IF text(u)>$40 AND text(u)<$5B THEN
            text(u)=$20
        FI
    OD

RETURN

PROC Getin (BYTE ARRAY text,BYTE len)

    BYTE ascii,pos,u,inv

    pos=text(0)+1
    inv=0

    IF text(0)#0 THEN
        Print (text)
    FI

    DO
        ascii=Inkey ()

        IF ascii=129 THEN
            inv=(!$80)
        FI
        IF ascii=$1E AND pos>1 THEN
            pos=-1
            PutD (0,$1E)
        FI
        IF ascii=$7E AND pos>1 THEN

```

```

    pos== -1
    PutD (0,$7E)
FI
IF ascii=$1F AND pos#len+1 THEN
    pos==+1
    PutD (0,$1F)
FI
IF ascii>26 AND ascii<32 THEN
    ascii=128
FI
IF pos#len+1 AND ascii<$7E THEN
    ascii==+inv
    PutD (0,ascii)
    text(pos)=ascii
    pos==+1
FI
text(0)=pos-1
Klick (2)
UNTIL ascii=$9B
OD

```

RETURN

PROC ClearChar (BYTE ARRAY text)

```

    text(0)=0

```

RETURN

PROC FillString (BYTE ARRAY string,BYTE ch,BYTE len)

```

    BYTE u

```

```

    FOR u=1 TO len
    DO
        string(u)=ch
    OD

```

```

    string(0)=len

```

RETURN

PROC Sort (BYTE ARRAY field)

```

    BYTE len,flg,u

```

```

    len=field(0)
    DO
        flg=0
        FOR u=1 TO len-1
        DO
            IF field(u)>field(u+1) THEN
                flg=field(u+1)
                field(u+1)=field(u)
                field(u)=flg
                flg=1
            FI
        OD
    OD

```

```

    UNTIL flg=0

```

OD

RETURN

PROC Inters (BYTE ARRAY string)

BYTE u

FOR u=1 TO string(0)

DO

string(u)=Inter(string(u))

OD

RETURN

PROC RSet (BYTE ARRAY dest,source)

BYTE l1,l2,u

l1=dest(0)

l2=source(0)

IF l1>=l2 THEN

FOR u=1 TO l1-l2

DO

dest(u)=32

OD

FOR u=1 TO l2

DO

dest (l1-l2+u)=source(u)

OD

FI

RETURN