SIEMENS

How to save and later read out GUDs using Write and Read commands (example)

```
%_N_WRITE_PROG_MPF
;$PATH=/_N_MPF_DIR
N100 DEF INT ERROR
N200 DEF STRING[100] _TX[10]
N300 DELETE(ERROR,"TEST1")
N400 _TX[0]=";Date: "<<$A_DAY<<"."<<$A_MONTH<<".200"<<$A_YEAR
N500 _TX[1]=";Name: Boettcher"
N600 _TX[2]=";GUD data archive:  VALUE[]   Time:  "<<$A_HOUR<<":"<<$A_SECOND
N1000 _TX[6]=";============================================="
N1100 WRITE(ERROR,"TEST1",_TX[0])
N1200 WRITE(ERROR,"TEST1",_TX[1])
N1300 WRITE(ERROR,"TEST1",_TX[2])
N1400 WRITE(ERROR,"TEST1",_TX[6])
N1500 WRITE(ERROR,"TEST1",<<VALUE[0])
N1400 WRITE(ERROR,"TEST1",<<VALUE [1])
N1500 WRITE(ERROR,"TEST1",<<VALUE [2])
N1600 WRITE(ERROR,"TEST1",_TX[6])
N1700 WRITE(ERROR,"TEST1","M30")
N1800 M30
```

A file called “TEST1“ is generated.

```
%_N_TEST1_MPF
;$PATH=/_N_MPF_DIR
;Date: March 26, 2001
;Name: Boettcher
;GUD data archive:  VALUE[]    Time:  13:30
;============================================
123.456
234.567
345.99999
;============================================
M30
```

Read out GUD data from a program

```
%_N_READ_PROG_MPF
;$PATH=/_N_MPF_DIR
N100 DEF INT ERROR,_Z
N103 DEF REAL ERG
N200 DEF STRING[255] _TXT[5]
N300 READ(ERROR,"TEST1",5,3,_TXT);read lines 5-7
N400 IF ERROR<>0
N500 MSG("Error "<<ERROR" upon reading")
N600 M0
N700 ENDIF
N800 _Z=0
N900 ANF:
N1000 MSG(_TXT[_Z])       ;Display of string content
N1100 ERG=NUMBER(_TXT[_Z]);Convert into real
N1110 VALUE[_Z]=ERG        ;ERG on GUD
N1300 stopre
N1400 _Z=_Z+1
N1500 IF _Z<3 GOTOB ANF
N1600 M30
```

Values are again available in GUDs