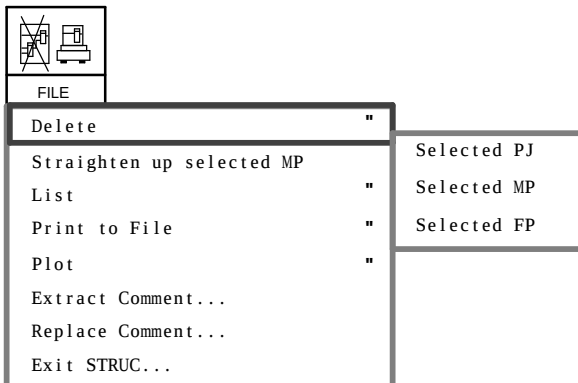


1 Process File

1.1 Deleting PJ, MP, FP or Makros

In mode **View Function Packets** a selected project (PJ), master program (MP) or function packet (FP) can be deleted by this function.

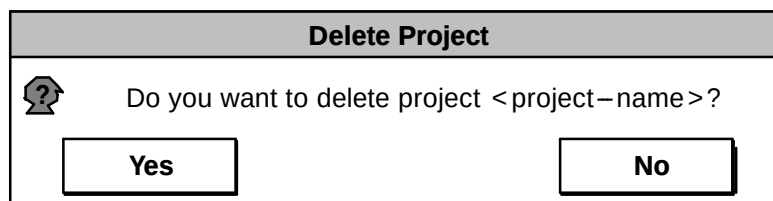
After clicking the menu ledge **FILE / Delete** in mode **View Master Program** the sub-functions **Selected PJ**, **Selected MP** or **Selected FP** can be selected:



If one of the lines **Selectes PJ**, **Selected MP** or **Selected FP** cannot be selected (insensitive), no PJ, MP or FP was selected before.

Delete Project

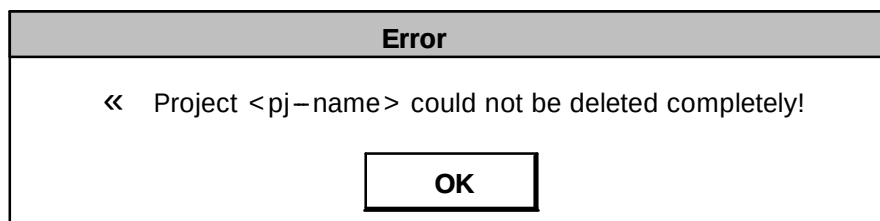
After invoking **FILE / Delete / Selected PJ** the function is not executed at once, but another quitting window is popped onto screen for security:



The function is aborted with the No 'button, i.e. the project is not deleted.

Click on the Yes 'button with the left-hand mouse key to delete the project directory with all sub-menus and all not against deleting projected files.

If there are protected files, then subsequently an information box is popped onto screen:

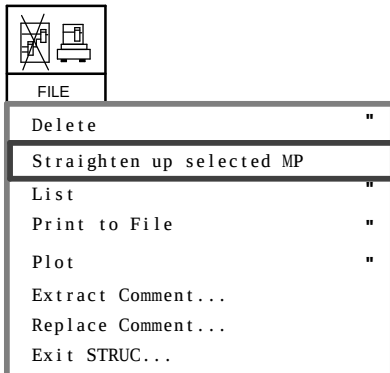


The deleting process of a master program or a function packet ist correspondig.

At the function packets, which are already configured in the master program, only the contents are deleted.
The button with the function packet name in the corresponding procesor column remains, but changes the color.

1.2 Straighten Up Selected MP

This function does delete all files in the selected MP directory except the source files with the extension .UMP, .CMP, .OMP, .CFP, .OFP, .KXX, .RMP, .RPN, .IPN and protected files.



The selection happens in the FILE button via the 2. selection line. By this function the number of files, which were created during the STRUC session but which were not essentially required, is reduced to the necessary degree.

This function should be used especially before the saving of master programs onto disk.

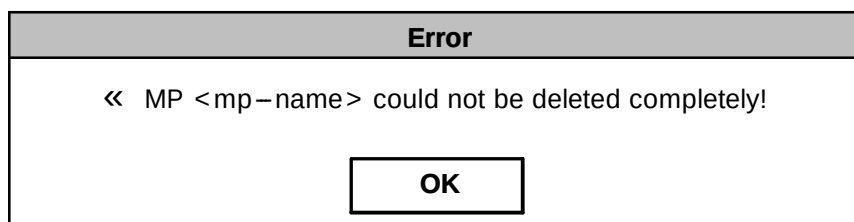
This function is activated by clicking on **FILE / Straighten Up Selected MP**.

CMP and CFP files are **renamed** in UMP or UFP files according to STRUC convention.

If the selection line "Straighten up selected MP" cannot be selected (insensitive), no master program was selected before.

The command for deleting does not have to be quitted in **'Straighten Up Selected MP'**, because of the possibility to generate the processor programs everytime from the source files, which are not deleted by this function.

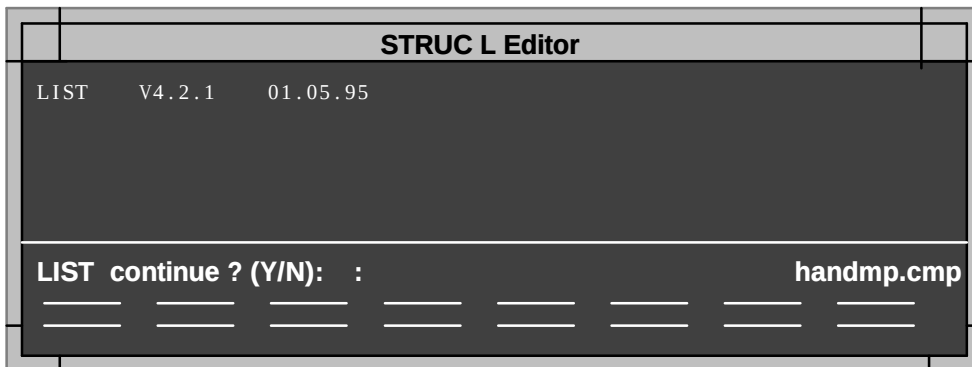
If there are protected files, then subsequently an information box is popped onto screen:



1.3 Announcing Listings

The function makes the watching (not the changing) of STRUC L listings (master program and function packet) and gives information about the configured and selected processor (about the single function packets, which signals are created and consumed, how the Prozessorauslastung !!!!!!! in the single scanning times ??????? or function packets is)

After clicking **FILE / List** in the menu ledge the sub-functions **MP**, **FP** or **PN** with their own sub-functions can be selected.



After prompting 'N' the function is aborted and re-branched out to the basic dialog.

After prompting 'Y' the selected listing is announced.

The cursor is positioned after start in the left above in the window.

With the **cursorkeys** and you can move the cursor line bei line, with the keys and side by side.

With the **ESC key** you can jump to the function selection in the foot line.

With the **cursorkeys** and you can choose between the functions NEXT? QUIT and FIND.

The function is carried out with **Input**. The functions can also be invoked directly with the key functions:

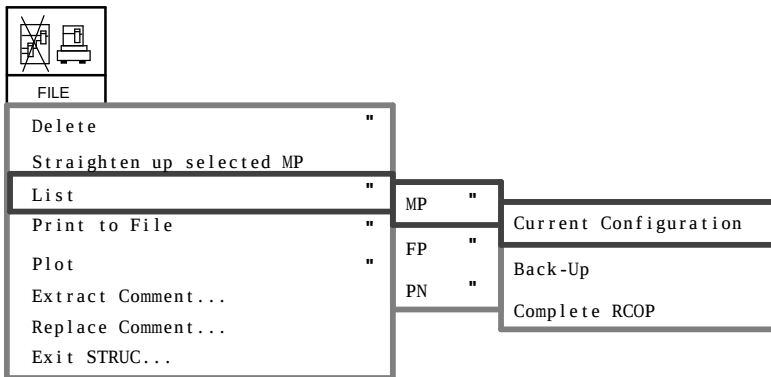
<SHIFT> <F4> ␣ NEXT?
 <SHIFT> <F7> ␣ QUIT
 <SHIFT> <F8> ␣ FIND

NEXT? : With this function you can jump to the next question mark in the text. The question mark is normally a sign for uncompletely prejudices or error messages of the STRUC L Compiler.

QUIT : The function QUIT quits the list function, if you answer the inquiry 'List abort? (Y/N)' with 'Y'. If you prompt the inquiry with 'N', the list is active further on.

FIND: The function FIND creates the possibility to find the text strings in the selected listing. The **search text** must be entered as 'search text'.

1.3.1 FILE / List / MP



FILE / List / MP / Current Configuration

- Attention:** This function is only available, if the corresponding file mp-name.cmp/.ump of the original projecting exists on the path.

After confirmation the quitting window with "Y" the selected MP listing is announced.

```

1 MP-HANDMP
& V4.2.1 MP-COP CHK 30.06.95 17:22
& IBSLIB 950401V420 A:
& B: C:
2 CT1 4S = 'Example for exercising '
3 CT2 4S = 'STRUC L P32/P16 '
4 CT3 4S = ' '
5 HLD 3S = '=DB50.W00 '
6 DLP 3S = '(4) E8831-G4569- '
7 DLS 1S = 'K001 '
8 DGP 3S = '(3) E8831-G4569- '
9 DGS 1S = 'K000 '
10 DPP 3S = 'ASI 1 V122 T3 '
11 DPS 1S = '00 '
12 LCD 3S = '+H7 '
13 OI1 2S = 'E121-840403 '
14 OI2 2S = 'Er1 '
15 CN1 2S = 'Siemens AG '

```

FILE / List / MP / Back-Up

- Attention:** This function is only available, if the corresponding file mp-name.omp of the original configuring exists on the path.

After confirmation the quitting window with "Y" the selected MP listing of the back-up file is announced.

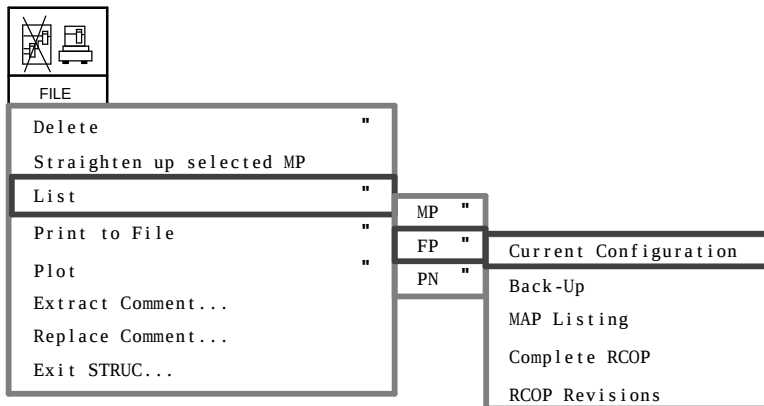
FILE / List / MP / Complete RCOP

- Attention:** This function is only available, if the corresponding file mp-name.rmp is created with the RCOP function **Decompile / MP**.

After confirmation the quitting window with "Y" the decompiled MP listing is announced. This is identical to the listing of the original configuration, but without comments.

1.3.2 FILE / List / FP

In the function **FILE / List / FP** do exist the sub – functions **Current Configuration, Back–Up, MAP Listing, Complete RCOP** and **RCOP Revisions** :



FILE / List / FP / Current Configuration

- **Attention:** This function is only available, if the corresponding file fp–name.cfp/.ufp of the original configuration exists on the path.

FP must be selected before invoking the function.

After confirmation the quitting window with "Y" the FP listing is announced. In line 17 the macro SAEGZ is invoked.

```

1 FP-FPMAC,P32
&      V4.2.1   FP-COP CHK 29.05.95 09:49 (MP-HANDMP. PN-D01-P1 29.06.95 11:48)
&      FBSLIB 950401V420      A:
&      B:                      C:
2   CT1 4S = '                  '"Content"'
3   CT2 4S = '                  '
4   CT3 4S = '                  '
5   HLD 3S = '                  '"Higher lev.design"'
6   DLS 1S = '                  '"Draw. No List suffix"'
7   DGS 1S = '                  '"Graphic suffix"'
8   DPS 1S = '                  '"Purchase suffix"'
9   DES 2S = '                  '"Designer "'
10  ORD 4S = '                  '"Original document"'
11  MD3 4S = '                  /      /      /      '"modification"'
12  MD2 4S = '                  /      /      /      '
13  MD1 4S = '                  /      /      /      '
14  ++++++
15      TX=T1
16
17      BST1      : SAEGZ.M
18  X01 NF < 100%                  "setpoint"
19  X02 TF < 200[ms]              "integration time"
20  X03 B1 < 1                    "1 = start, 0 = stop"
21  Y01 NF >

```

FILE / List / FP / Back–Up

- **Attention:** This function is only available, if the corresponding file fp–name.ofp of the original configuration exists on the path.

After prompting 'Y' the FP listing of the back–up version of FP is announced.

FILE / List / FP / MAP–Listing

- **Attention:** This function is only available, if the corresponding file fp–name.mfp of the original configuration exists on the path.

After prompting 'Y' the FP–MAP listing is announced.

```

1 FP-FPMAC.M
&      V4.2.1  FP-COP    29.06.95    09:49    (MP-HANDMP. PN-D01_P1  29.06.95  11:49)
2
3  FP-MAP-Listing
4
5  *****
6
7  FP connections in  FP-FPMAC
8
9      No
10
11 *****
12
13 FB connections with changes of the feeltime
14
15      No
16
17 *****
18
19 Communication assignments
20
21      No
22
23 *****
24
25 Hardware adresses
26
27      No
28
29 *****

```

FILE / List / FP / Complete RCOP

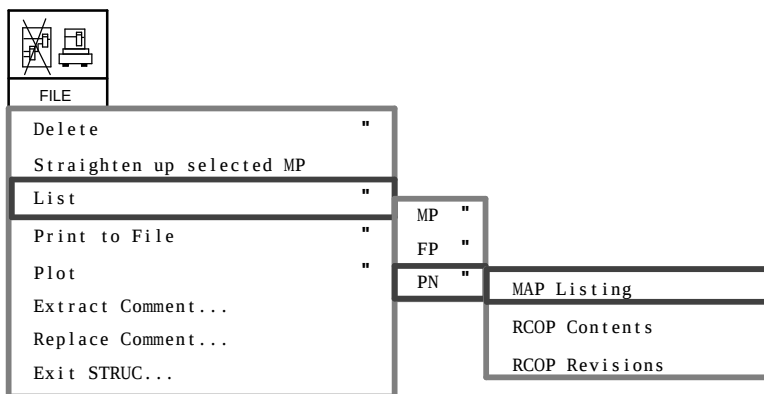
- **Attention:** This function is only available, if the corresponding file fp–name.sfp is created with the RCOP function **Decompile / FP / Complete RCOP Generation**.

After prompting "Y" the listing of the decompiled FP is announced. This is identical to the listing of the original configuration, but without comments.

FILE/ List / FP / RCOP Revisions

- **Attention:** This function is only available, if the corresponding file fp–name.rfp is created with the RCOP function **Decompile / FP / Generate RCOP Revisions**

After prompting "Y" a revision listing is announced. This form is identical to the STRUC listing. Only the connector lines, which were modified with an online service program, are announced refer to the original configuration.

1.3.3 FILE / List /PN**FILE / List /PN / MAP Listing**

- **Attention:** This function is only available, if the corresponding file nmp–name.mpn (n=processor number) of the original configuration exists on the path.

After prompting "Y" the MAP listing of the processor is announced.

```

1  PN-D01_P1
&    V4.2.1  PN-COP    29.06.95    09:49    (MP-HANDMP  29.06.95  11:48)
2
3  *****
4
5  Projected function packets
6
7  FP name    TYP    FP-COP Date    installation sign
8
9  @SIMD3     SYS    29.06.95    09:47    "=SD.01                "
10 SAEG32          29.06.95    09:48    "=DB50.W00             "
11 SINE        29.06.95    09:48    "=DB50.W00             "
12 SERV        29.06.95    09:48    "=DB50.W00             "
13 FPMAC        29.06.95    09:49    "                      "
14 @SDP12     COM    29.06.95    09:49    "                      "
15
16 *****
17
18 Projected macros
19
20 MK name    state    installation sign    Anz-FBs    protected
21
22 SAEGZ      0000    "                      "    00002
23
24 *****
25
26 Connector list of the funktion packets
27
28 FP-@SIMD3,SYS

```

FILE / List /PN / RCOP Contents

- **Attention:** This function is only available, if the corresponding file nmp-name.nmp-name ipn. (n=processor number) is created with the RCOP function **Decompile / PN / Contents** the original configuration exists on the path.

After prompting "Y" the modification overview of all function packets are announced, which belong to a processor program and are modified with an online service program.

FILE / List /PN / RCOP Revisions

- **Attention:** This function is only available, if the corresponding file nmp-name.nmp-name rpn. (n=processor number) is created with the RCOP function **Decompile / PN / Generate RCOP Revisions**.

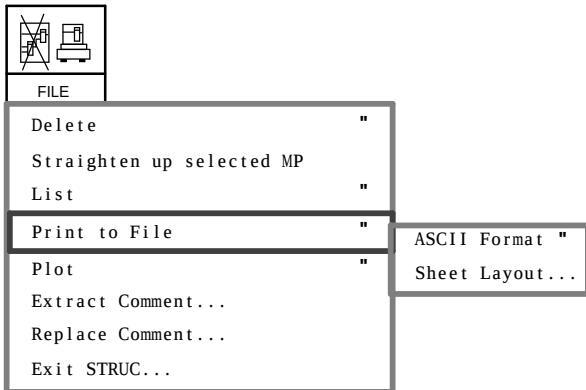
After prompting "Y" the revision listing of all parameters and connections are announced, which belong to a processor program and are modified with an online service program.

1.4 Print to File

After clicking **FILE / Print to File** in the menu ledge the sub-functions **ASCII-Format** and **Sheet Layout** with their own sub-functions can be selected.

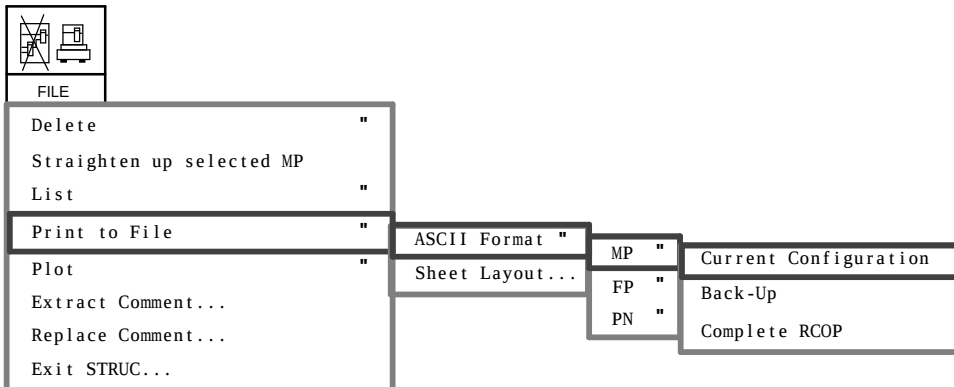
The function is compiled in two steps:

- D **Formating** the STRUC text, i.e. create script header, script footer and distribute the text over a couple of pages
- D Writing the **formatted** text to the file



FILE / Print in File / ASCII Format / MP

After clicking **FILE / Print to File / ASCII-Format** in the menu ledge the sub-functions **MP**, **FP** or **PN** can be selected. After the selection of the sub-function MP the sub-functions **Current Configuration**, **Back-Up** or **Complete RCOP** can be selected.



FILE / Print in File / ASCII Format / MP / Current Configuration

- Attention:** This function is only available, if the corresponding file mp-name.cmp/.ump of the original configuration does exist on the path.

A MP must be selected before invoking the function.

```

SIMADYN D/STRUC V4.2.1      MP-COP CHK      MP-HANDMP
MP-COP  12.07.95 08:12
-----

1 MP-HANDMP
&      IBSLIB 950401V420      A:
&      B:                      C:
2 CT1 4S = 'Example for exercise      '
3 CT2 4S = 'STRUC L P32/P16      '
4 CT3 4S = '      '
5 HLD 3S = '=DB50.W00      '
6 DLP 3S = '(4) E8831-G4569-      '
7 DLS 1S = 'K001      '
8 DGP 3S = '(3) E8831-G4569-      '
9 DGS 1S = 'K000      '
10 DPP 3S = 'ASI 1 V122 T3      '
11 DPS 1S = '00      '
12 LCD 3S = '+H7      '
13 OI1 2S = 'E121-840403      '
14 OI2 2S = 'Erl      '
15 CN1 2S = 'Siemens AG      '
16 CN2 2S = '      '
17 UP1 4S = 'text-line 1      '
18 UP2 4S = 'text-line 2      '
19 UP3 4S = 'text-line 3      '
20 DAT DA = 19.09.94
21 DES 2S = 'ASI 1 D V122      '
22 CHK 2S = '      '
23 ORD 4S = 'MP-HANDMP, 17. december 1993 '
24 MD3 4S = '      /      /      '
25 MD2 4S = '      /      /      '
26 MD1 4S = 'AAAAAA/Modification 11/12.07.95/St '
27 SYS 1N = @SIMD
28 DIM DL = [KVA],[MVA],[%],[KW],[MW],[START],[STOP]
&      ([ms],[s],[min],[A],[V],[1/min],[m/min],[m/s],[Degree],[Hz])
29 ++++++
30

-----
=DB50.W00      (4) E8831-G4569-K001      Sheet 1

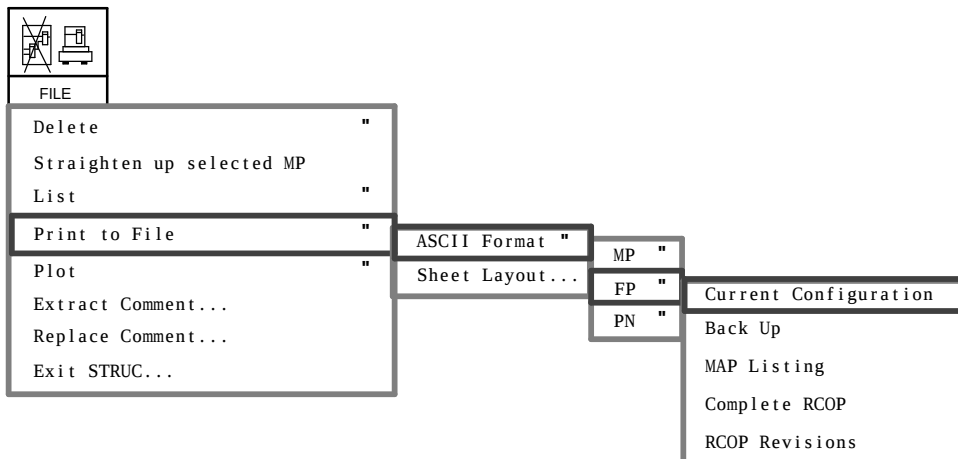
```

FILE / Print to File / ASCII Format / MP / Back-Up

- Attention:** This function is only available, if the corresponding file mp-name.omp of the original configuration does exist on the path.

FILE / Print to File / ASCII Format / MP / Complete RCOP

- Attention:** This function is only available, if the corresponding file mp-name.rmp does exist on the path, created by the RCOP function **Decompile / MP**.

FILE / Print to File / ASCII–Format / FP**FILE / Print to File/ ASCII–Format / FP / Current Configuration**

- **Attention:** This function is only available, if the corresponding file `fp–name.cfp/.ufp` of the original configuration does exist on the path.

FILE / Print to File/ ASCII–Format / FP / Back Up

- **Attention:** This function is only available, if the corresponding file `fp–name.ofp` of the original configuration does exist on the path.

FILE / Print to File / ASCII–Format / FP / MAP Listing

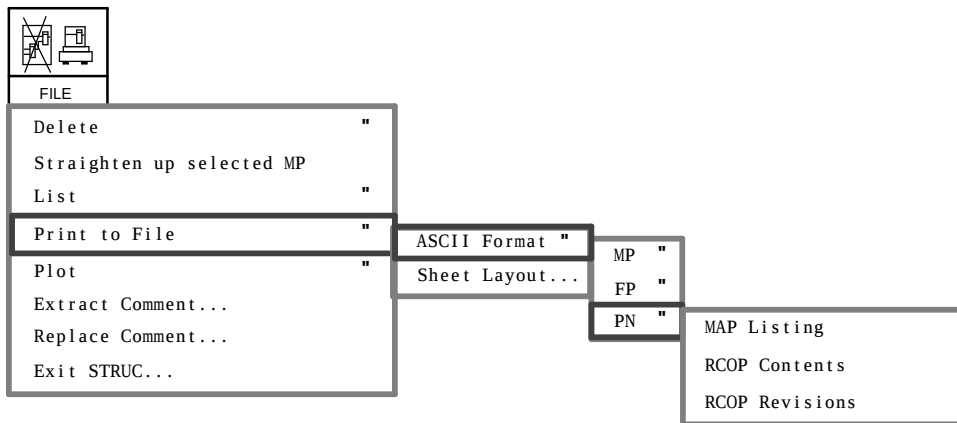
- **Attention:** This function is only available, if the corresponding file `fp–name.mfp` of the original configuration does exist on the path.

FILE / Print to File / ASCII–Format / FP / Complete RCOP

- **Attention:** This function is only available, if the corresponding file `fp–name.sfp` does exist on the path, created by the RCOP function **Decompile / FP / Complete RCOP Generation**

FILE / Print to File / ASCII–Format / FP / RCOP Revisions

- **Attention:** This function is only available, if the corresponding file `fp–name.rfp` does exist on the path, created by the RCOP function **Decompile / FP / Generate RCOP Revisions.**

FILE / Print to File / ASCII–Format / PN**FILE / Print to File / ASCII Format / PN / MAP Listing**

- **Attention:** This function is only available, if the corresponding file `nmp–name.mpn` of the original configuration does exist on the path.

A processor program must be selected before invoking the function.

FILE / Print to File / ASCII Format / PN / RCOP Contents

- **Attention:** This function is only available, if the corresponding file `nmp–name.ipn` does exist on the path, created by the RCOP function **Decompile / PN / Contents**.

FILE / Print to File / ASCII Format / PN / RCOP Revisions

- **Attention:** This function is only available, if the corresponding file `nmp–name.rpn` does exist on the path, created by the RCOP function **Decompile / PN / Generate RCOP Revisions**.

FILE / Print to File / Sheet Layout

After invoking the function **'Sheet Layout'** the following window is popped onto screen:

 A screenshot of a dialog box titled 'Define Sheet Layout'. It contains six input fields with numerical values: 'Number of Lines per Sheet' (72), 'Number of Lines in front of Header' (2), 'Number of Lines after Header' (1), 'Number of Lines in front of Footer' (1), 'Number of Lines after Footer' (2), and 'Minimum Lines for each Element per Sheet' (3). At the bottom are 'OK' and 'Cancel' buttons.

For the formatting of the STRUC–L text in ASCII–format the sheet layout can be set in this window. The meaning of the settings (parameter) can be taken from the picture.

```

1      <In front of Header>
2      <In front of Header>
1      SIMADYN D/STRUC <Version> <Level>      <Type>      <Path>
2      <Program> <Date and Time>      <MP-COP Data>
3
4      <After Header>

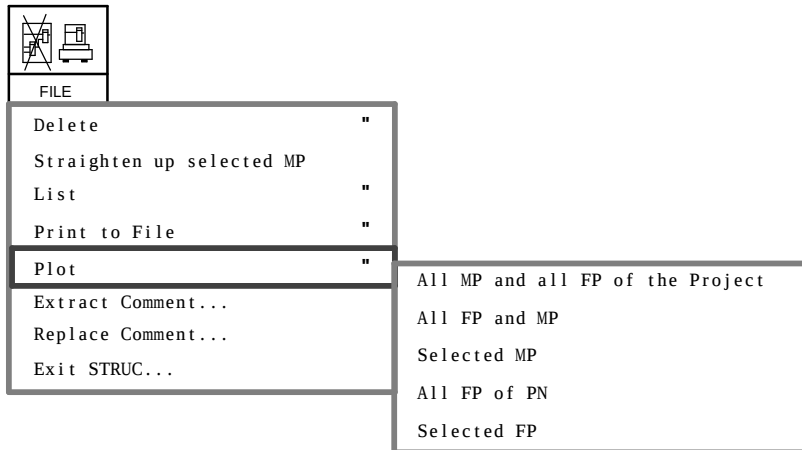
-3      <In front of Footer>
-2
-1      <Plant ID> <Drawing No.Prefix> <Suffix>      Sheet<1>
n      <After Footer>

```

- **Remark:** An element marks a STRUC L FB screen, which is usually multi line.
If the parameter 'Minimum Lines for each Element per Sheet', is set for example to 2, then at least 2 lines of the STRUC L screen (block header and the 1st. connector) are printed at the sheet boundary. If the remaining space is smaller, then a page break is immediately set.

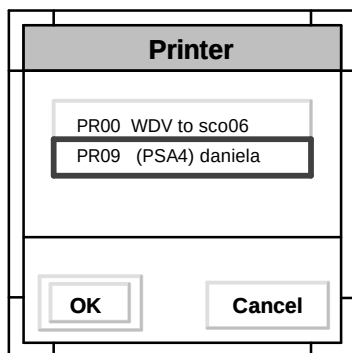
1.5 Plot

After clicking on **FILE / Plot** in the menu strip the sub – functions **All MP and all FP of the Project**, **All FP and MP**, **Selected MP**, **All FP of PN** or **Selected FP** are invoked:



After invoking a plot function first a window for the selection of the printer is popped onto the screen. In that window choose the printer (POSTSCRIPT / CGM), you prefer:

PR00 is a CGM printer
PR09 is a postscript printer (PSxx)



With clicking on 'Cancel' button the plot function is canceled. After the selection of a printer i.e. PR09 and clicking on 'OK' button with the left mouse button, the plot function is started and the image will be closed.

Project – Plot:

After invoking the function **FILE / Plot / All MP and all FP of the Project** all master programs of the project and all function packets of these master programs are plotted.

Master Program – Plot:

After invoking the function **FILE / Plot / All FP and MP** the master program and all function packets of the master program are plotted.

Selected MP – Plot:

After invoking the function **FILE / Plot / Selected MP** only the master program and no function packets are plotted.

Processor Program–Plot:

After invoking the function **FILE / Plot / All FP of PN** all function packets of the processor program are plotted.

Selected Funktion Packet–Plot:

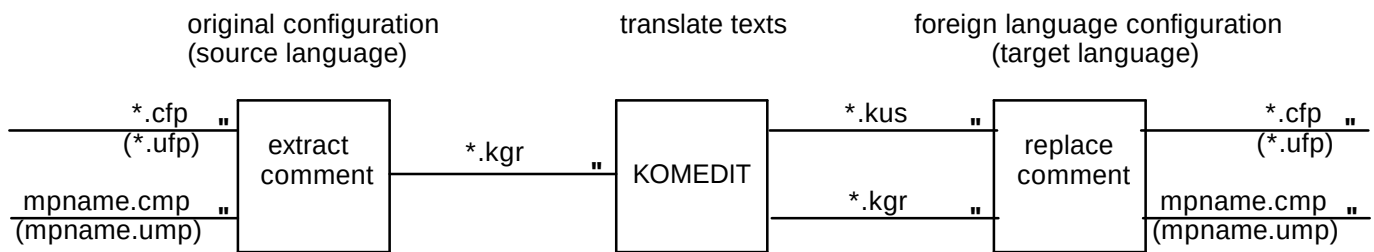
After invoking the function **FILE / Plot / Selected FP** only the selected function packet is plotted.

1.6 Process Comments

Configurations, created with STRUC version V 3.x or V 4.x and which are commented in the language of the configuring engineer (source language), can be transposed to the user's language (target language), without impairment of the configured functions.

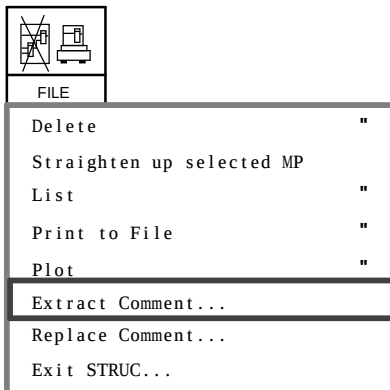
The transposition takes place in three steps:

- D Extracting comments (create source comment files)
- D Translating comment files into the target language (create target comment files with the help of a STRUC comment editors KOMEDIT, that can be used in MS–DOS / Windows)
- D Replacing comments (target comments instead of source comments)

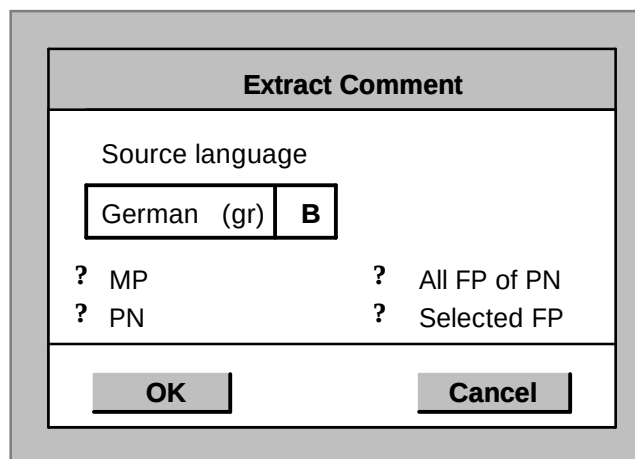
z data flow

1.7 Extract Comment

This function is invoked by clicking **FILE / Extract Comment**.



After activation a selection window is popped onto the screen.



The language variants in the following are intended in standard:

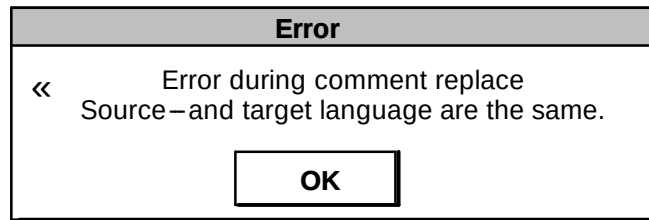
- D English (us)
- D German (gr)
- D French (fr)
- D Spanish (sp)
- D Italian (it)

With Cancel 'the window Extract Comment' is closed and the old selection keeps its validity.. With OK 'the window is closed and the selected parameter are proofed.

Parameter errors are i.e.:

- D Source language = target language
- D Button MP is selected and no MP is selected
- D Button PN is selected and no PN is selected
- D Button FP is selected and no FP is selected

In case of error a message window is popped onto screen or the selection of a processing mode is closed:



The different processing modes in the log file stand for:

MP: (Component ID: MP–E–KOM)

The comments of the MP file and all function packets of MP are extracted. The comments of the MP file are written into a comment file. The comment files of all FP \$ of one PN are comprehended to one comment file. While comprehending several existing comment files are saved only ones. For 8 processors per MP 9 comment files are created: <mp–name> .kgr, 1<mp–name> .kgr, ... , 8<mp–name> .kgr. The index gr means, that these are german comment files.

PN: (Component ID: PN–E–KOM)

The comments of all function packets are extracted. The comment files of all FP of one PN are comprehended to one comment file. While comprehending several existing comment files are saved only ones. Thereby all for the selected MP existing comment files are evaluated as a filter. If prozessor 1 is selected, then comment files of the MP file are written into the comment file additionally.

All FP of PN: (Component ID: PN–FP–E–KOM)

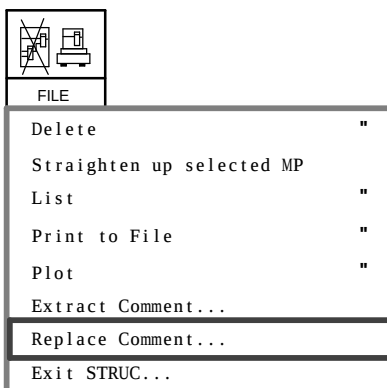
The comments of all function packets of PN are extracted. The comment files are not comprehended. In processor 1 also the comments of the MP file are written into the comment file. Thereby many comment files n: <fp–name> .kgr. are created. The index gr means, that these are german comment files. This kind of operating should be selected, if the comprehended comment files become too big or if only comments of individual FPs do not have to be processed. In the comment files there are several used comments also several times created.

Selected FP: (Component ID: FP–E–KOM)

The comments of the selected FP are extracted. Thereby a comment file <fp–name> .kgr. is created. The index gr means, that these are german comment files.

1.7.1 Replace Comments

This function is activated by clicking **FILE / Replace Comment**



After activation a selection window is popped onto the screen.:

Replace Comment			
Source Language		Target Language	
German (gr)	B	English (us)	B
? MP		? All FP of PN	
? PN		? Selected FP	
OK		Cancel	

Source language and target language (in each case a selection menu) and the processing mode can be selected.

The source language shows, in which language the original configuring is commented. The target language shows, which language the user wants to have for the documentation. The standard language variants (see section 'Extract Comment ') for source– and target language are the same.

With Cancel 'the window 'Extract Comment "is closed and the old selection keeps its validity. OK 'closes the window and the selected parameters are proofed. In case of error a message window is popped onto screen and the old selection also keeps its validity.

The varied processing modes signify the same as documented in section 'Extract Comment ". So if an extraction was carried out in MP or PN operating, then the replacing must be carried out in he same kind of operating. If PN operating is replaced and if i.e. P4 is selected, then there must exist all comment files 1 < mp – name.kus> , ... , 8 < mp – name.kus> , in case that the same comment is used multiple. The index us means, that these are english comment files (target language). If not all comments are translated, then this state is announced with a window popped onto screen and the corresponding remark is entered in the log file. These recognition of components could exist because of any error:: MP–S–KOM, PN–S–KOM, PN–FP–S–KOM and FP–S–KOM.

1.7.2 Translating Comment

For translating the 'source languages "comments, which were filtered with basic dialog function **FILE / Extract Comment** out of a STRUC configuration V4.x oder V3.x, into the target language, the MS–DOS / Window–Program KOMEDIT is used. The operating instructions are found in the user manual STRUC L.