#27   Compiling external procedures directly to a Proc.Ext file

Written by Todd Carper   Published Date December 14, 1987

───

How to compile your externals directly to a Proc.Ext file.

───

When compiling external procedures and external areas, using MPW, you may specify that the code be compiled directly to a Proc.Ext type file. Following is a description of the process using MPW Pascal.

Pascal MyProg.p

```
link -w -p MyProg.p.o ∂              Give link command
     "{Libraries}"Interface.o ∂      Specify the libraries.
     "{Libraries}"Runtime.o ∂
     "{PLibraries}"Paslib.o ∂
     "{PLibraries}"SANELib.o ∂
     -rt '4DEX=15000'∂               Specify resource ID.
     -sg "Main2=Main,SANELib "∂      Joins segment Main and the Sane libraries into one. *
     -sn 'Main2'='MyProg(&S;&R)'∂     Change segment name. **
     -c "4DMX" -t "PEXT"∂            Specify the creator and type.
     -o MyProg
```

*Note: for this external procedure, the Sane libraries are needed, therefore, they must exist in the same segment as the main code. If your code does not require the Sane libraries then this command is not necessary. Be sure to note the case used in "SANELib " and the space which is between 'b' and the quote mark.

**The segment name was changed from Main2 to MyProg, the additional parameters, in parens, specify the types of the parameters being passed from 4D. In this example, (&S;&R), specifies that a String and a Real are to be passed. String first, Real second. Each parameter is preceded by an ampersand, '&'. A semicolon is used to separate each parameter.

The parameter types are as follows:

I   Integer
L   LongInt
R   Real
S   String
T   Text
D   Date
P   Picture

After the file has been created you may either change the filename to Proc.Ext and try it out. Or use the 4D External Mover to copy it to another Proc.Ext or Filename.Res file.

There will also be an item in the list, (if viewed in the 4D External Mover), with the name %A5Init. This item may be deleted from the list as it is not needed by the external.

4th Dimension Technical Note