# MPW QR4 Appendix D

*Release Notes*

**ProcNames—display Pascal procedure and function names**

ProcNames has been enhanced to have the ability of generating MPW Shell *mark* commands to place markers on all the procedures and functions in a Pascal file.

New  and Modified Options:

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| **-b** | Display line number information for the the start of the procedure or function body (i.e., its BEGIN) instead of the header.  If marker commands are being generated (**-m**), the markers will be placed on the procedure or function BEGIN that delimits its body. |
| **-cond** | Process Pascal $setc and $ifc, $elsec, $endc conditionals.  This option is assumed if **-d**, **–MC68020**, or **-MC68881** options are specified.  Pascal conditionals must be processed if you process USES statements (**-u** option) and those USES reference {PInterfaces}.  Due to the way these interfaces are organized, ProcNames will not parse the Pascal source correctly unless the Pascal conditionals are processed. ProcNames will not list routine names which are skipped due to conditionals. |
| **-d** *name*=TRUE \| FALSE,… | Set the compile time ($setc) variable *name* to TRUE or FALSE.  This option has the same meaning and effect on compile time conditional as in the Pascal compiler.  The purpose is to set initial value for variables tested by Pascal compile time conditionals statements ($ifc). The **-cond** option is assumed if **-d** is specified. |
| | Caution: the **-d** option is "overloaded"!  If a Shell command line parameter of the form *name*=TRUE \| FALSE is specified, then this define form for the  **–d** option is assumed.  Otherwise |

the "reset to line 1 for each now file" form is assumed.  For obvious reasons, a filename of the form id=id must not be placed immediately after a **-d** option.

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| **-l** *n* | Process procedures and functions only to maximum nesting level *n*. |
| **-m** | Generate MPW Shell marker commands *instead* of a display of procedure names.  The marker strings will be the corresponding procedure or function names indented as a function of their nesting level.  For units, marker commands will also be generated for the INTERFACE procedure and function declarations.  The markers may be placed on the procedure header names (by default) or the BEGIN statement of the procedure's body (using the **-b** option).  You may want to use the **-l** option to limit the markers to only the n-most outer procedures. |
| **-MC68020** | Specify this option if the source has any Pascal directive conditional of the form {$ifc OPTION(MC68020)} and you use that fact to generate MC68020 code from the Pascal compiler.  The **-cond** option is implied by using this option. |
| **-MC68881** | Specify this option if the source has any Pascal directive conditional of the form {$ifc OPTION(MC68881)} and you use that fact to generate MC68881 code from the Pascal compiler.  The **-cond** option is implied by using this option. |
| **-o** | The source file is an Object Pascal Program.  The identifier OBJECT is considered as a reserved word so that Object Pascal declarations may be processed.  The default assumes that the source is not an Object Pascal program.  If markers are being generated (**-m**), then marker commands will be generated to mark the names of all objects declared in the input file. |

<u>Limitations changes/additions</u>:

The limitation that recommends against using the **-u** option to request processing of USES declarations is no longer applicable.  The following paragraph should be added to "limitations":

> When Pascal compile time conditionals are processed, the form {$ifc OPTION(id)) is only fully supported when the id is MC68020 or MC68881.  In all other case this form of $ifc evaluates to TRUE.  The Pascal $MC68020 and $MC68881 are treated as special cases and tracked by ProcNames.  The only reason for this is to handle the {$ifc OPTION(id)} conditional.  It is unreasonable and impracticable to have this ProcNames track every Pascal compiler option that exists or may exist in the future.  MC68020 and MC68881 have been singled out since they, of all the Pascal options, are the most likely candidates to be used generally in Pascal source.  Most other options are very specific to the Pascal compiler itself and are unlikely to be used.  Indeed, the $MC68881 is explicitly tested in SANE.p.  Currently there are no other uses of the {$ifc OPTION(id)} form in any other of the standard Pascal libraries.