Notes on the Assembler

The assembler has the following restriction.

[Symptom]

When the program refers to a symbol defined within a DUMMY section, the referenced value is invalid.

[Example]
```
      .SECTION DM,DUMMY,ALIGN=4
        .RES.B  4
        .RES.W  2
 LABEL: .RES.L  1                      ; The value of LABEL is H'8
        ...
      .SECTION DT,DATA,ALIGN=4
 DT_STARTLAB:
        ...
      .SECTION CD,CODE,ALIGN=4
        ...
      MOV.L #DT_STARTLAB-LABEL,R1     ; Correct code :
                                              The value is DT_STARTLAB-8
        ...                            ; Incorrect code :
                                              The value is DT_STARTLAB-0
```

[Condition]

The problem occurs when the program includes an expression which contains both a symbol defined within a DUMMY section and a relative symbol defined in another section.

[Workaround]

Replace the reference to the symbol defined within a DUMMY section with (symbol - <section name of the DUMMY section>).

  <Example>
```
      .SECTION DM,DUMMY
        .RES.B  4
        .RES.W  2
 LABEL: .RES.L  1                      ;  The value of LABEL is H'8
        ...
      .SECTION DT,DATA,ALIGN=4
 DT_STARTLAB:
        ...
      .SECTION CD,CODE,ALIGN=4
        ...
      MOV.L #DT_STARTLAB-(LABEL-DM),R1 ; The expression value is
        ...                                             DT_STARTLAB-8
```

Notes on the Library Generator

When running Library Generator under UNIX or the DOS prompt of Windows NT(R) or Windows(R)2000, follow the procedure below:

(1) Running under UNIX

Run under the directory where the compiler is installed.

(2) Running under the DOS prompt of Windows NT(R) or Windows(R)2000

Run the program with the full-path name including the file extension(exe).

Example: c:¥hew¥Tools¥Hitachi¥Sh¥6_0_0¥bin¥lbgsh.exe