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## 740 Family

LIST FILE CONVERTER <LST74>

### Operation Guide

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## 1. OUTLINE

This program converts an assembler list file into an absolute list file.

The absolute list file is output in the same format as the assembler list file generated by the assembler.

## 2. OPERATION

When LST74 detects an error of command line inputs, the following HELP screen is output.

```
A> LST74 <RET>
```

```
740 Family PRINT FILE CONVERTER V.1.02.01
```

```
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```

```
Usage: LST74 filename [-74 | -77][ -Opath][ -P Print_filename [ ... ] ]
```

```
    -74 : for MELPS 740
```

```
    -77 : for MELPS 7700
```

```
    -P  : Print file name
```

```
    -O  : Path
```

The extension with "filename" can not be specified.

The symbolic file name is created by adding extension ".SYM" to filename specified in command line. The HEX file name is created by adding extension ".HEX" to filename specified in command line.

All files which are contained information of SECTION in symbolic file are processed.

Option "-P"

This option specify assembler list file name.

This option can be specified many times.

Option "-S"

This option generate absolute list file name from assembly source file name.

Option "-R"

This option generate absolute list file name from relocatable list file name.

If option "-R" and "-S" is not specified, absolute list file name is generated from relocatable file name.

Option "-L"

This option converts capital letter into small letter of filename which is contained symbolic file.

Option "-74"

The MELPS740 series assembler list file is processed.

Option "-77"

The MELPS7700 series assembler list file is processed.

### 3. NOTES

(1) The assembler list file is generated if option "-L" is specified when SRA74 or RASM77 invokes.

(2) The symbolic file is generated if option "-S" is specified when LINK74 or LINK77 invokes.

(3) LST74 start execution only when the processing assembler list file exists.

(4) The size of work disk area needs more than total size of assembler list files.

(5) All the pseudo command ".SECTION" line must be output to assembler list file. If this line does not output, LST74 can not find starting point of section(unit), so that start address of next section is wrong.

Therefore, must not write ".SECTION" between pseudo command ".NLIST" and

".LIST". The following example describes source program which ".SECTION" is not output to assembler list file.

example 1)

```
.NLIST
.SECTION PROGRAM
.LIST
```

The line of ".SECTION PROGRAM" is not output to assembler list file.

example 2)

```
SECT: .MACRO NAME
      .SECTION NAME
      .ENDM
;
.NLIST
SECT PROGRAM
.LIST
```

The line of ".SECTION PROGRAM" in "SECT" macro call is not output to assembler list file.

(6) Can't generate absolute list file to relocatable file which was linked from library file.

(7) Can't generate absolute list file when the address range exceeds 1M bytes on machine language data file.

#### 4. ERROR MESSAGE LIST

Error Message	Description
Usage: LSTxx filename [-74   -77][-Opath] [-P Print_filename [...]] -74 : for MELPS 740 -77 : for MELPS 7700 -P : Print file name	Input command is mistake.
Can't open 'filename'	Symbol file 'filename' can not be found.
Can't create 'filename'	'filename' absolute list file can not be created.
Out of disk space	Not enough disk space.
Out of heap space	Not enough main memory.
0x?? : Control character read	Control character ?? is on symbolic file.
Symbol file format error	Illegal symbolic file format.
HEX file format error	Illegal HEX file format.
PRN file format error	Illegal assembler list file format.
Object code error. ADDRESS xxxxxxH	Object code can't be found at absolute address number xxxxxxH.
Unmatch section 'section-name'	'section-name' can't be found in assembler list file which is contained symbolic file.
File name error file_name	The print file which is specified by option "-P" can not be found in symbolic file.
No filename specified Usage: LSTxx filename [-74   -77][-Opath] [-P Print_filename [...]]	No filename specified.