

**gputils 0.10.2**

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# Contents

<b>1</b>	<b>gpasm</b>	<b>3</b>
1.1	Running gpasm . . . . .	3
1.1.1	Using gpasm with “make” . . . . .	4
1.1.2	Dealing with errors . . . . .	4
1.2	Syntax . . . . .	4
1.2.1	File structure . . . . .	4
1.2.2	Expressions . . . . .	4
1.2.3	Numbers . . . . .	5
1.2.4	Preprocessor . . . . .	6
1.3	Directives . . . . .	7
1.3.1	Code generation . . . . .	7
1.3.2	Configuration . . . . .	7
1.3.3	Conditional assembly . . . . .	7
1.3.4	Macros . . . . .	7
1.3.5	Suggestions for structuring your code . . . . .	8
1.3.6	Directive summary . . . . .	8
1.4	Instructions . . . . .	14
1.4.1	Supported processors . . . . .	14
1.4.2	Instruction set summary . . . . .	15
1.5	Errors/Warnings/Messages . . . . .	17
1.5.1	Errors . . . . .	17
1.5.2	Warnings . . . . .	19
1.5.3	Messages . . . . .	19
<b>2</b>	<b>gplib</b>	<b>21</b>
<b>3</b>	<b>gplink</b>	<b>22</b>
<b>4</b>	<b>Utilities</b>	<b>23</b>
4.1	gpdasm . . . . .	23
4.1.1	Running gpdasm . . . . .	23
4.1.2	Comments on Disassembling. . . . .	23
4.2	gpvc . . . . .	24
4.2.1	Running gpvc . . . . .	24
4.3	gpvo . . . . .	24
4.3.1	Running gpvo . . . . .	24

# Introduction

gputils is a collection of tools for Microchip (TM) PIC



### 1.1.1 Using gpasm with “make”

On most operating systems, you can b



base	general syntax	21 decimal written as
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**CBLOCK**

```
CBLOCK [<expression>]
    <label>[:<increment>][,<label>[:<increment>]]
ENDC
```

Marks the beginning of a block of constants <label>. gpasm allocates values for symbols in the block starting at the value

**DW**

<label> DW <expression> [, <expression>]\*

Declare data of one word.

See also: DA, DATA, DB, DW

**ELSE**

ELSE

Marks the alternate section of a conditional assembly block.

See also: IF, IFDEF, IFNDEF, ELSE, ENDIF

**END**

END

Marks the end of the source file.

**ENDC**

ENDC

Marks the end of a CBLOCK.

See also: CBLOCK

**ENDIF**

ENDIF

Ends a conditional assembly block.

See also: IFDEF, IFNDEF, ELSE, ENDIF

**ENDM**

ENDM

Ends a macro definition.

See also: MACRO

**ENDW**

ENDW

Ends a while loop.

See also: WHILE

**EQU**

<label> EQU <expression>

Permanently assigns the value obtained by evaluating <expression> to the symbol <label>.

See also: SET













**14 Bit Devices (PIC16CXX)**

Syntax	Description
ADDLW <imm8>	Add immediate to W

**Special macr**

**115 Duplicate Label**

Duplicate label or redefining a symbol that can not be redefined.

**124 Illegal Argument**

gpasm encountered an illegal argument in an expression.

**125 Illegal Condition**

An illegal condition like a missing endif or endw has been encountered.

**126 Argument out of Range**

The expression has an argument that was out of range.

**127 Too many arguments**

gpasm encountered an expression with too many arguments.

**128 Missing argument(s)**

gpasm encountered an expression with at least one missing argument.

**129 Expected**

Expected a certain

gum30372t0 named106411

## **1.5.2 Warnings**

**201** Symbol not previously defined.

The symbol being #undefined was not previously defined.

**202** Argument out of range

The ID locations value specified is too large.

**305** Using default destination of 1 (file).

No destination was specified so the default location was used.

**308** Warning level superseded by command line

The warning level was specified on the command line and in the source The command line has precedence.

**309** Macro expansion superseded by command line

Macro expansion was specified on the command line and in the source The command line has precedence.



## Chapter 3

# gplink

gplink is a new and incomplete tool. When complete, it will provide the ability to link relocatable objects to produce an executable object.







```
gpvo test.obj > test.dump
```

This redirects standard output to the file “test.dump”.

# Index

ASCII, 6

BADRAM, 8  
bash, 4, 23, 24

case, 3  
CBLOCK, 9  
character, 6  
comments, 4  
CONFIG, 8  
CONSTANT, 9

DA, 9  
DATA, 9  
DB, 9  
DE, 9  
DT, 9  
DW, 10

ELSE, 10