

# MAC/65 BUG SHEET

This is the updated MAC/65 bug sheet, as of 01/07/94. The latest version of the cartridge is 1.02. The following fixes apply only to this version:

1. **DOS 3 / SpartaDOS problems** – Earlier versions of the cartridge would not properly assemble FROM a disk file; that is, you had to have something in memory. This has been fixed in version 1.02.
2. **JSR, JMP to Zero Page** – The first version of the cartridge generated an invalid opcode for a JMP or JSR to a zero page location. This has been fixed in version 1.01 (and 1.02).

No other known 'bugs' exist. Here are a couple of peculiarities and features:

1. **Printer timeout** – Some printers take a long time to do form feeds, etc. If a timeout occurs, MAC/65 will stop printing, and wait for you to press Control 1. No message is given, so if printing stops, try pressing Control 1.
2. **LISTing** – A feature of the LIST command not described in the manual is this: you may say „LIST 1234-,, and MAC/65 will list lines 1234 to the end. You don't need to give an ending linenumber if you use the dash.
3. **FIND / REP variation** – Normally, the FIND and REP commands will automatically capitalize anything between the delimiter characters. Thus if you have a lower case comment you want to find, „FIND/test/, will not work. However, if you use a quotation mark (,), it searches for the exact text, and does not automatically capitalize your string.
4. **Forward references with Macros** – In order to avoid phase errors, you must define a string or buffer you will be using BEFORE you call the macro with that label. Example:

```
PRINT 0,BUFFER
```

```
BUFFÈR .DS 40
```

...will NOT work! Instead, the reference need to be placed before the macro call, like:

```
BUFFER .DS 40
```

```
PRINT 0,BUFFER
```

5. **Screen Colors** – The default screen colors have been enhanced to ease viewing.

## Errors In the MAC/65 Manual

Ignoring typographical errors, there are only two corrections to be made in the manual:

1. **IF example** – page 44. In the example shown, there are two .IF directives but only one .ENDIF. The example will not work properly as shown. To fix it, replace line 17 with:

```
17          .ENDIF
```

2. **MACRO HINTS** – page 62. The two examples shown are not equivalent, as the text professes. The first example is an example of unsafe coding, but it is not very meaningful as is. Perhaps a better example would be the following:

```
.IF %1<256  
  .BYTE %1  
.ENDIF
```

In this case, if the macro were invoked with no parameters, %1 would have the value zero and would also generate an assembly error, and possibly incorrect code would be generated. A better way to code this macro is:

```
.IF %0<>1  
  .ERROR "Wrong number of parameters!"  
  .ELSE  
    .IF %1<256  
      .BYTE %1  
    .ENDIF  
  .ENDIF
```

## The MAC/65 Toolkit

1. **UNIFY.COM conflict with SpartaDOS** – This has been fixed. Older versions of UNIFY.COM would cause unpredictable results when run under SpartaDOS. Note that SpartaDOS does NOT let you use the same filename as input and output, but this is valid under other DOSes.
2. **Name changes** – Two instructions in the PMGR.M65 file have names that conflict with 6502 instructions. The two macros PLPFC and PLPLC look to MAC/65 too much like the PLP instruction. If you will be using these in your program, simply change the names in the file:

```
1141 .MACRO PPFC  
1131 .MACRO PPLC
```

Then SAVE the file back to your disk. Note the changes also in your Toolkit Manual on pages 22 and 23.

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