

# COMPILING GPC ON MAC OS X

First the Pascal test source :

```
[localhost:gcc-6/obj/cc-ppc-on-ppc] pascal% cat toto.p
program Toto;
```

```
begin
Writeln('Hello, again...');
end.
```

The compilation result :

```
[localhost:gcc-6/obj/cc-ppc-on-ppc] pascal% ./xgpc -B./ -L./ toto.p
<implicit code>: In function `main':
<implicit code>:5: Unable to generate reloads for:
(call_insn 23 21 25 (parallel[
  (call (mem:SI (symbol_ref:SI ("pascal_main_program"))) 0)
  (const_int 32 [0x20]))
  (use (const_int 0 [0x0]))
  (clobber (scratch:SI))
]) 558 {*call_nonlocal_sysv} (nil)
(nil)
(nil))
```

The compilation result with details :

```
[localhost:gcc-6/obj/cc-ppc-on-ppc] pascal% ./xgpc -v -B./ -L./ toto.p
Using builtin specs.
gpc version 20011202, based on 2.95.2 19991024 (release)
./gpcpp -lang-pascal -v -isystem ./include -famtmpfile=/var/tmp/cc004912 -fdelphi-
comments -D__GNU_PASCAL__ -undef -D__GNUC__=2
-D__GNUC_MINOR__=95 -D__GPC__=2 -D__GPC_MINOR__=0
-D__GPC_VERSION__=2.0 -D__GPC_RELEASE__=20011202
-D__BITS_BIG_ENDIAN__=1 -D__BYTES_BIG_ENDIAN__=1
-D__WORDS_BIG_ENDIAN__=1 -D__NEED_NO_ALIGNMENT__=1 -D__ppc__
-D__NATURAL_ALIGNMENT__ -D__MACH__ -D__BIG_ENDIAN__
-D__APPLE__ -D__ppc__ -D__NATURAL_ALIGNMENT__ -D__MACH__
-D__BIG_ENDIAN__ -D__APPLE__ -D__STDC__
-D__APPLE_CC__=20011226183839 -D__DYNAMIC__ toto.p
/var/tmp/cc004912.i
GNU Pascal Compiler PreProcessor version 20011202, based on gcc-2.95.2
19991024 (release)
#include "..." search starts here:
```

#include <...> search starts here:

./include

/usr/local/include

/include

/usr/include/gcc/darwin/2.95.2/g++/..

/System/Library/Frameworks/System.framework/Headers

/usr/include

End of search list.

./gpc1 /var/tmp/cc004912.i -fPIC -Wno-four-char-constants -quiet -dumpbase

toto.pas -version -famtmpfile=/var/tmp/cc004912 -o /var/tmp/cc004912.s

GNU Pascal version 2.95.2 19991024 (release) (ppc-darwin) compiled by GNU C

version 2.95.2 19991024 (release).

GNU Pascal version is actually 20011202, based on gcc-2.95.2 19991024

(release)

<implicit code>: In function `main':

<implicit code>:5: Unable to generate reloads for:

(call\_insn 23 21 25 (parallel[

(call (mem:SI (symbol\_ref:SI ("pascal\_main\_program"))) 0)

(const\_int 32 [0x20]))

(use (const\_int 0 [0x0]))

(clobber (scratch:SI))

] ) 558 {\*call\_nonlocal\_sysv} (nil)

(nil)

(nil))

I hope these points may help.

Regards, Pascal Pignard.