
Subject: : AmigaOS4

Topic: : Building Cross-Compiling adtools for Amiga OS4 PowerPC (ppc) with Cygwin/Bash on Ubuntu on Windows

Re: Building Cross-Compiling adtools for Amiga OS4 PowerPC (ppc) with Cygwin/Bash on Ubuntu on Windows

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Date: : 2017/11/8 4:49:55

URL:

@Hans

Anyone trying BEBBOs toolchain ?:

<https://github.com/bebbo/amigaos-cross-toolchain>

This would be the default AmigaOS 3.x, AROS toolchain to keep a set standard across Amiga systems in 2017+.

Stefan "Bebbo" Franke's fork of Krystian Bac?awski's AmigaOS Cross-Compiler Toolchain.

Tested on multiple machines, Windows Cygwin 32 bit, Ubuntu 32/64 bit and CentOS 64 bit, & Mac.

<http://eab.abime.net/showthread.php?t=85474>

A Docker is available:

Dockerfile for Stefan "Bebbo" Franke's fork of Krystian Bac?awski's AmigaOS Cross-Compiler Toolchain.

<https://github.com/sebastianbergmann/docker-amigaos-cross-toolchain>

```
docker run -v $HOME:/host -it sebastianbergmann/m68k-amigaos-bebbo \
m68k-amigaos-gcc /host/hello.c -o /host/hello -noixemul
```

```
docker run -v $HOME:/host -it sebastianbergmann/m68k-amigaos-bebbo \
vasm -Fhunkexe -o /host/hello /host/hello.s
```

run the Amiga software in Linux using Docker :

```
docker-execute-amiga helloworld
```

or Dockerized emulation using vamos eg (compile & run an AmigaOS C/C++ compiler from the internet/server !!)

```
docker run -v $HOME:/host sebastianbergmann/amitools:latest \
vamos -C 68020 /host/hello
```

Details

ppc-amigaos target:

gcc 4.2.4, g++ 4.2.4, binutils 2.18 (assembler, linker, etc.)

newlib, clib 2.2

AmigaOS headers & libraries & autodocs (for AmigaOS 4.1)

AmigaOS, 68k

binutils 2.9.1 & 2.14, libnix 2.2, libm 5.4

AmigaOS 3.x toolchain, vbcc toolchain (vasm, vlink & C standard library)

Headers, libraries, autodocs, for AmigaOS 3.9

MacOSX users : Require MacPorts or Homebrew installed.

Prerequisites

You have to have following packages installed in your system:

GNU gcc 5.x 32-bit version! or Clang

Python 2.7.x

libncurses-dev

python-dev 2.7

GNU make 4.x

perl 5.22

git

GNU patch

GNU gperf

GNU bison

Windows 10 64-bit with Cygwin 32bit

Install cygwin via setup.exe and add wget. Then open cygwin shell and:

wget [https://raw.githubusercontent.com/tran ... en/apt-cyg/master/apt-cyg](https://raw.githubusercontent.com/tran.../en/apt-cyg/master/apt-cyg)

install apt-cyg /bin

apt-cyg install gcc-core gcc-g++ python git perl-Pod-Simple gperf patch automake make makedepend bison flex

libncurses-devel python-devel gettext-devel libgmp-devel libmpc-devel libmpfr-devel

Ubuntu 16.04 LTS 32-bit (gcc 5.4.0)

sudo apt-get install git gcc g++ python-dev gperf patch automake make bison libncurses-dev gettext libgmp-dev

libmpc-dev libmpfr-dev

git clone <https://github.com/bebbo/amigaos-cross-toolchain>

Build

```
git clone git://github.com/bebbo/amigaos-cross-toolchain.git cd amigaos-cross-toolchain
```

```
./toolchain-m68k --prefix=/opt/m68k-amigaos build
```

optional -threads, AHI, CyberGraphX, Magic User Interface, etc

```
./toolchain-m68k --prefix=/opt/m68k-amigaos install-sdk ahi cgx mui
```

Failed ? send email and log to report and fix issues & asm optimizations. Donations welcome.

```
./toolchain-m68k build 2>&1 | tee build.log
```

cleanup build before use

```
rm -rf .build-m68k
```

```
rm -rf /opt/m68k-amigaos
```