

AROS - AmiWest 2012

History and Development Update

History of AROS

- Development start in 1995 by Aaron Digulla
- Original development targeted a Unix hosted environment
 - DOS and Exec only - no graphics
 - Goal was (and still is) AmigaOS 3.x source level compatibility
- By 2009, supported pc-i386 as its primary platform - a large number of 3rd party applications are available for AROS v0, for the pc-i386 platform

AROS v0 (Stable)

- pc-i386, with multiple distributions:
 - Icaros (<http://vmwaros.blogspot.com>)
 - Broadway (<http://www.aros-broadway.de>)
 - AROS Aspire (<https://sites.google.com/site/arosaspireone/>)
- pc-x86_64 - developers only
- What's new:
 - Printing support for PostScript printers
 - AHCI support (limited)
 - icon.library improvements
 - Stability improvements

AROS v1 (Experimental)

- Improved pc support
 - APIC/ACPI
 - 3d graphics (Gallium) for NVidia, Intel, and AMD
- New hosted targets:
 - linux-arm, android-arm, darwin-ppc, etc.
- New native targets
 - m68k-amiga, ppc-sam460
- AROS Vision m68k Distribution
 - http://www.natami-news.de/html/aros_vision.html
- Improved AmigaOS 3.x compatibility
 - Filesystems now use DOS Packets
 - Datastructures aligned to AmigaOS layouts
- Improved POSIX C runtime library

AROS Open Development

- Cross-compilation env. for Linux and OS X
- AROS builds its own cross-compilation environment - just download the sources and `./configure`
- Primary repository is in SVN, but many developers use GIT clones of the SVN tree:
 - <http://gitorious.org/aros>
 - <http://repo.or.cz/w/AROS.git>
- License derived from Mozilla Public Lic.

Target: Raspberry PI

- Target type is linux-arm
- Raspberry PI is:
 - ARMv6
 - VFP floating point
 - 256M (512M now available)
 - Ethernet/SD/DVI/Composite/Audio/USB
 - \$35 !
- Linux provides input, video, and storage
- Everything else (scheduler, tasks, etc) is AROS

Target: Sam460ex

- Target type is sam440-ppc
- Sam460ex is:
 - AMCC ppc460 CPU
 - SM502 graphics/audio
 - USB/SD/PCI/PCIe x4/Ethernet
- All drivers are AROS native
 - SM502 video
 - ATA interface
 - USB 1.1
 - Ethernet
- Pre-release demo shown today

Target: FPGA Replay Arcade

- Target is amiga-m68k
- FPGA Replay Arcade is:
 - Amiga 1000 - Amiga 1200 emulation
 - SD/DVI/Serial/Joystick/PS2 Mouse & Keyboard
 - Not yet in full production...
- Runs most AmigaOS 3.x applications and games
 - Including WHDLoad!
- AmigaOS 3.x ABI compatibility (95% there)
- Optimization needed! 68040, for

AROS - Kitty Doesn't Play Favorites

- If you have a system you want AROS on:
 - Sponsor a bounty at <http://www.power2people.org>
 - or.. Donate hardware to a willing developer
 - or.. Use the Source, Luke!
- We support ARM, PPC, m68k, i386, x86_64

Any Questions?

Thanks for your time!