

## **Acorn RISC OS**

- Multitasking Operating System for ARM systems
  - Intuitive Graphical User Interface
  - Outline Scalable, Anti-aliased fonts
  - Performance tuned for ARM processor
  - Wide range of vertical and horizontal applications
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- Extensive API
  - Support for multiple filesystem formats
  - Supports the Acorn Replay multimedia architecture
  - Modular structure supporting runtime extensibility
  - Networking support for NFS and Lan Manager
  - Designed to run from ROM
  - High quality image support
  - Quality printing support for many printer types
  - Support for multiple display resolutions

## ***De-facto Standard for ARM Systems***

RISC OS has been shipped on over 500,000 systems worldwide. The only operating system designed specifically from the ground upwards for the ARM processor, it includes a rich set of graphics, font and multimedia technologies. It also supports a large number of applications from regular productivity tools including spreadsheet and database applications through to sophisticated multimedia authoring and video editing systems. Its design and implementation make it ideal for embedded multimedia applications.

## ***Modular architecture for maximum flexibility***

Designed to be runtime configurable to conserve system memory, RISC OS loads operating system extensions at runtime. These modules provide new functionality for applications as required. This functionality could be anything from a new device driver or video codec. RISC OS is designed as a fully functional ROM-based desktop operating system — however, due to its modular design it may be quickly adapted to fulfil the requirements of other ARM based systems. Examples of this include digital set-top boxes and network computers.

## ***Support for a wide range of devices***

As a general purpose operating system RISC OS has support for many types of hardware devices: storage devices including SCSI II, PCMCIA, and ATAPI/IDE; multiple types of video devices are supported including television, greyscale and colour liquid crystal displays to high resolution colour monitors. Support is also included for input devices such as touch screens, keyboard handlers and mice. This wide-ranging device support allows RISC OS to be rapidly adapted to new types of product.

## ***Innovative software subsystems***

Acorn Replay is the multimedia architecture for RISC OS. Using Replay on RISC OS, many audio and video codecs may be played through a simple-to-use interface. The RISC OS multimedia pack contains two software video codecs which provide high quality video playback at 25 frames per second on a standard ARM 610 CPU running at 33MHz.

The Acorn Font Manager can anti-alias fonts from outlines and cache them for later use. This provides high performance high quality text rendering. The anti-aliasing is done in software and provides highly readable text on low resolution devices such as televisions.

The Acorn Printer Manager provides system-wide support and delivers high quality printing on hundreds of printer types. The colour management and error diffusion technology available in the system provides very realistic images from the cheapest colour printers.

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