UDI HDK Roadmap

http://www.sco.com/forum1999/conference/developfast/f7

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This is the second in a series of eight UDI presentations for SCO Forum 1999.

This session explains how and when UDI development kits will be made available, and how they will ultimately be merged into the SCO HDK and Base OS. It also describes plans for test suites, sample drivers, and debugging tools.

UDI HDK Roadmap - Why UDI?

- **UDI lets you write once, port for free**
- **UDI Version 1.0 is at the editors. See** http://www.sco.com/udi/specs.html
- **UDI will be supported on all SCO O/S's**
  - UnixWare 7, Release 7.1 and 7.2
  - OpenServer runtime (Mid-2000)
  - Monterey 64

UDI HDK Roadmap - UDI Timetable

- **UDI alpha DK available today at** http://www.sco.com/UDI/sco/udidk
- **UDI DK and runtime PTF for UnixWare 7, Release 7.1 in Q4 1999**
- **Native UDI DK, doc, runtime for UnixWare 7, Release 7.2 in '00**

UDI HDK Roadmap - UDI Timetable

- **Going forward, UDI will be on Monterey but DDI will not**
- **Download the UDI spec today; go to the talks**
- **UDI - your path to Monterey 64**

F7: UDI HDK Roadmap

UDI HDK Roadmap - UW 7.1

- **Alpha version of the UDI Developer kit for UnixWare 7 Release 7.1 available today**
- **Downloadable from** http://www.sco.com/UDI/sco/udidk
- **UDI version 1.0rc3 compliant**

UDI Alpha DK info (cont'd)

- **Alpha DK includes tools to**
  - compile your driver (**udibuild**)
  - create UDI-compliant driver package (**udimkpkg**)
  - install a UDI-compliant driver package on UW (**udisetup**)
- **pkgaddable atop UW 7.1**

UDI Alpha DK info (cont'd)

- **Alpha DK supports UDI specs, including**
  - Core Services
  - Physical I/O
  - SCSI Driver
  - Network Driver
  - PCI Bus Binding

UDI Alpha DK (cont'd)

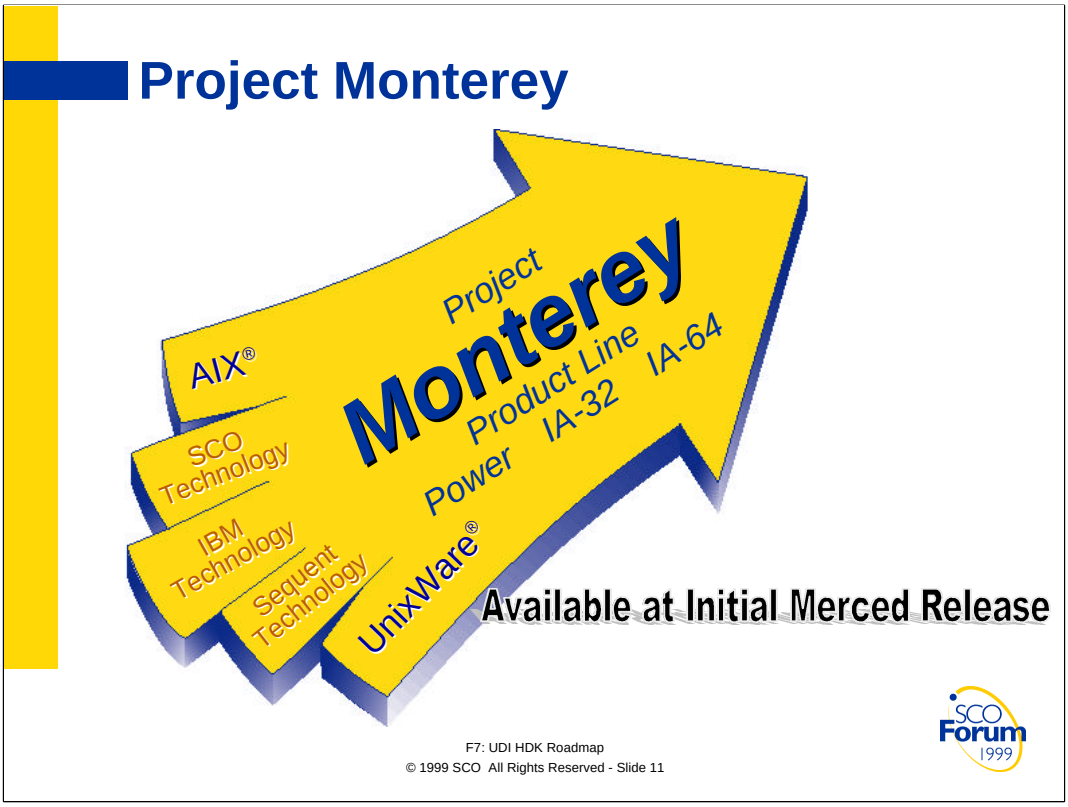
- **Alpha DK includes sample drivers**
  - DPT SCSI (see F12: *UDI SCSI Drivers*)
  - CMOS
- **Alpha DK includes tools to**
  - compile driver (**udibuild**)
  - build driver package (**udimkpkg**)
  - install package on UW system (**udisetup)**

UDI Alpha DK info (cont'd)

- **Alpha DK to be updated monthly, see release notes for restrictions**
- **E-mail address (**udidk@sco.com**) for feedback**
- **Plan to ship as official PTF Q4 1999**
  - includes tuning, doc, full 1.0 support
  - will form basis for UnixWare 7 Release 7.2 implementation

UDI HDK Roadmap - UW7.2

- **UDI will be the native driver model for UnixWare 7 Release 7.2**
- **Still will support drivers written to DDI version 6 or higher**
- **Full support (HDK, samples, tools, debugging)**



Project Monterey is a joint project of SCO, IBM, and Intel.

End result is a common “family” of server platforms:

UnixWare 7 on IA-32

AIX on PowerPC

Monterey-64 on IA-64

Monterey-64 is a merging of UnixWare 7 & AIX technologies, with contributions from Sequent & other OEMs as well as new 64-bit specific enhancements.

Targeted to be available at the initial release of the Merced processor:

2nd half 2000

UDI Support in Project Monterey

- **UDI critical to Project Monterey success**
  - Single driver model for all 3 platforms
- **UDI is preferred driver model for Monterey-64 on IA-64**
  - Available in the first release

Monterey UDI SDK Schedule

- **UDI SDK first release in mid-2000**
  - Monterey-64 on IA-64
  - AIX® on PowerPC
- **UnixWare® 7 is obvious development platform of choice for now**
  - Simply recompile for IA-64 or PowerPC

Adaptec UDI Roadmap

http://www.sco.com/forum1999/conference/developfast/f7

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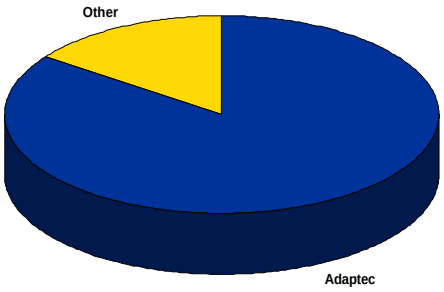
Adaptec Market Share in the SCSI I/O marketplace



Adaptec owns the SCSI I/O marketplace due to:

Superior compatibility, Outstanding reliability, Professional support, and…….

adaptec

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Adaptec Supports UDI

- **Early involvement w/ Project UDI**
- **UDI Driver for Prototyping of spec.**
- **Drivers for U160 products**
  - Announcements to OEM's has been done
  - Public Announcement of availability '00

adaptec

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Adaptec Supports UDI

- UDI is in line with our value-add proposition of solid drivers for our customers
- Allows Adaptec to hit several OS's with one driver source
- Unlike other standards, allows continued value to be in silicon, and….

adaptec

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Leading with New SCSI Technology

Speed

•160 MB/second doubles the transfer rate of Ultra2 SCSI

Manageability

Domain Validation intelligently tests the storage networkCRC enables higher reliability

SCSI

•Backward compatibility protects your investment with the same SCSI your business runs on today

adaptec

SCO Forum 1999

Introduction to UDI

Intel's Network Interface Division Roadmap

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Intel's NID Roadmap

- **Why UDI?**
- **Intel's plans**
  - When and where to expect UDI nic drivers
- **Expectation of UDI**
  - Performance, extensibility and OS neutrality

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Why UDI?

- **Our division acts as an IHV for Intel's network adapters**
  - Problems that UDI attempts to solve for an IHV
    - » Multiple OSs supported with one driver
    - » Multiple adapter drivers derived from a single driver
      - only hardware specific source code changes

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Why UDI? (cont.)

- Results from using UDI
  - » Testing effort for the multiple OSs becomes much easier
  - » Brings the industry together by offering a standard way in which to write device drivers making it easier for the industry to get more devices supported
  - » Makes the migration from IA-32 to IA-64 easy
    - The same driver will work on both architectures with a re-compile

Intel's plans

- **Have been working on our driver design since the 0.90 version of the specification was produced**
  - We've moved onto the 1.0 version to finish the design
  - Driver design almost finished today
- **Will be ready for the early beta's of Monterey**
  - AIX version of our current DDI 8 driver for power-on
- **Will be fully supported through the IA-64 launch**
- **Intel's PRO/100+ and the PRO/1000 series nics will be supported at the IA-64 launch**

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A subtitle can be added to the title of a slide. Carriage return after title and type in text of subtitle after title. Highlight subtitle text and reduce type size and remove BOLD style. It should be in regular (NOT BOLD), size 24 type.

Expectation of UDI

- **Better performance**
  - Better network performance
  - Fewer CPU cycles used to produce the same network load
  - Better reliability and stability
- **Fewer versions of nic drivers to support**
  - Development costs as well as the support and testing efforts are reduced with fewer driver versions
- **Get our driver onto more OSs than it currently is ported to since the driver is OS neutral**

F7: UDI HDK Roadmap

The machine icons shown here were drawn from an aerial-view perspective. Whenever possible, please try to keep your diagramming similar to that shown here to keep the perspective/style consistent.

Presenter's Notes

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August 19, 1999