



mary kwan

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**Linux compatibility
solutions
and open source tools
for hp-ux**

<http://devresource.hp.com/LPK>



agenda

- **Linux and Open Source today**
- **Open Source Ecosystem for HP-UX**
- **Linux Compatibility Solutions for HP-UX**
 - Linux Runtime Environment
 - Linux Porting Kit
- **what the future holds**
- **Q & A**

quick poll



How many are ...

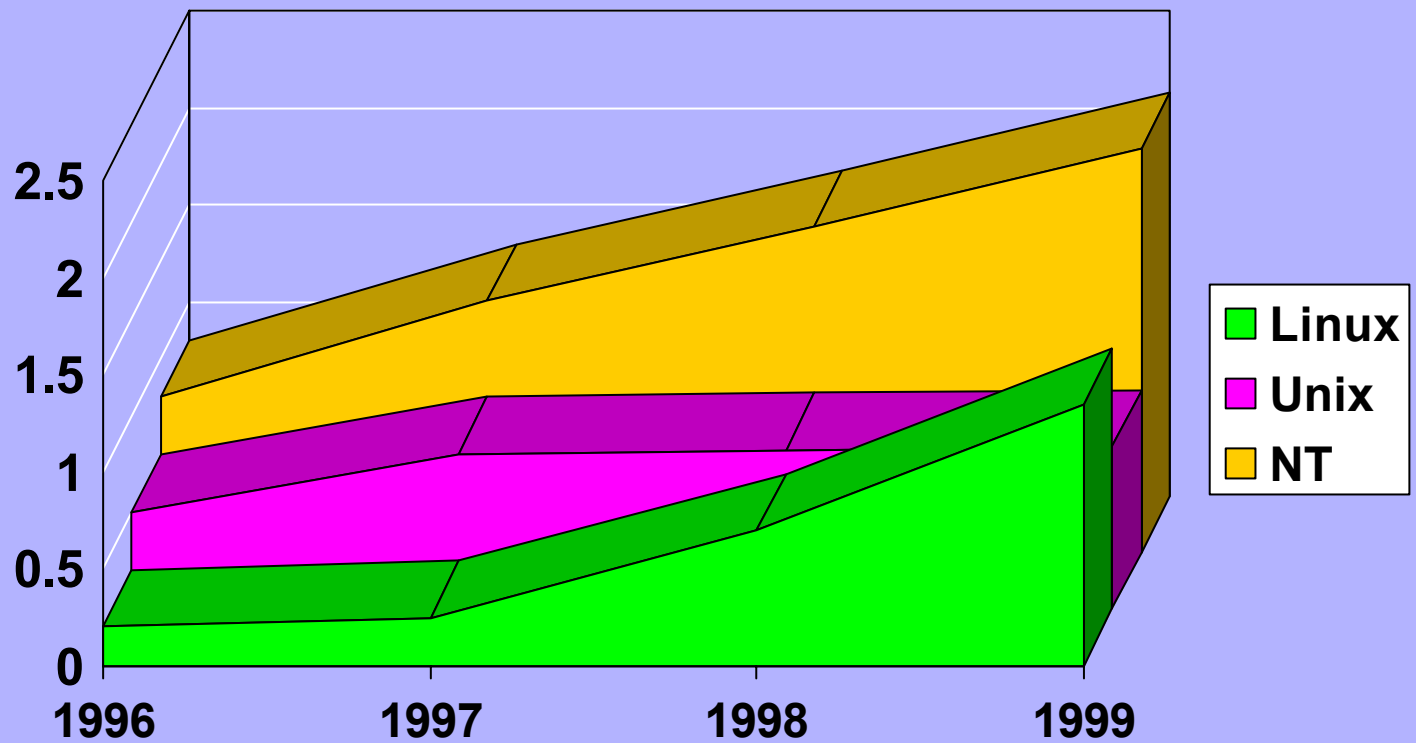
- from the US?
- from the Chicago area?
- from outside of the US?

Do you ...

- use Open Source tools/products?
- use/know about Open Source tools & products on HP-UX PA-RISC or IPF?
- use/know about support services available for these Open Source tools & products for HP-UX?

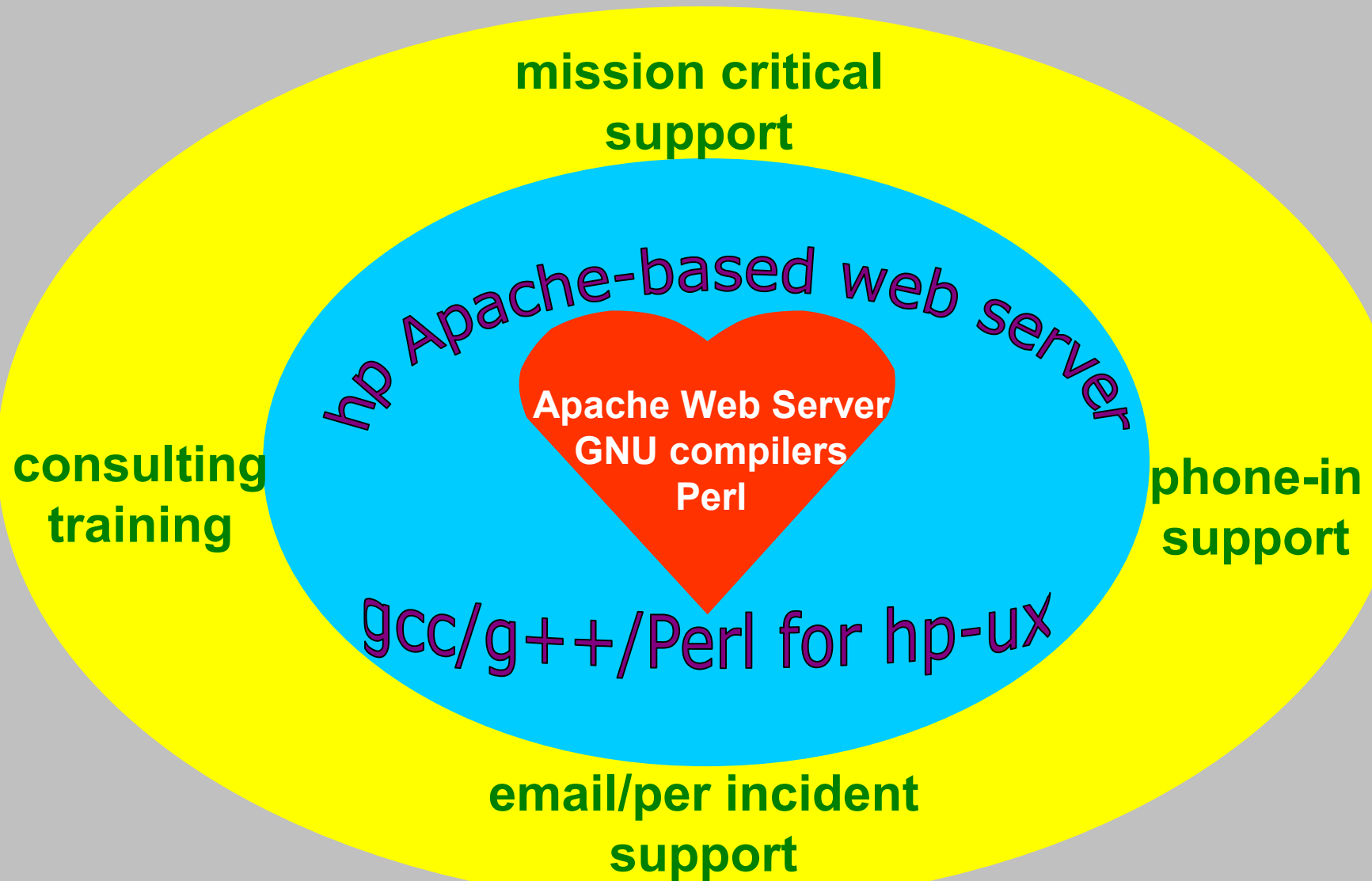
Linux as the fastest growing OS

Worldwide **server** operating system unit shipments in millions



Source: IDC: 4/2000

open source ecosystem for hp-ux



value proposition



HP's Linux compatibility solutions for HP-UX provide ISVs and e-services developers with the most competitive cost and total developer experience for Linux development and HP-UX deployment on the Itanium systems.

linux compatibility solutions for hp-ux

as a developer, you can

- run Linux applications on Linux and HP-UX
- develop applications on Linux, then deploy on HP-UX

binary compatibility

build on Linux, run on *BOTH*
Linux and HP-UX

source compatibility

provide Linux source
compatibility tools and APIs to
easily port applications from
Linux to HP-UX

hp toolkits for linux compatibility solutions on hp-ux



Linux Runtime Environment Kit

- Linux LE Itanium Runtime Environment
- Linux Software Transition Kit
- Linux Runtime Environment White Paper

Availability: H2, 2002

Linux Porting Kit

- Open Source Developer's Toolkit
- Linux-Compatible APIs
- Linux Software Transition Kit
- Linux Porting Guide & Support Services

Availability: Today



Linux porting kit for hp-ux version 1.0 (Linux APIs)

Open Source Developer's Toolkit

- familiar Linux development tools
e.g. GNU compiler toolchain

Linux-Compatible APIs

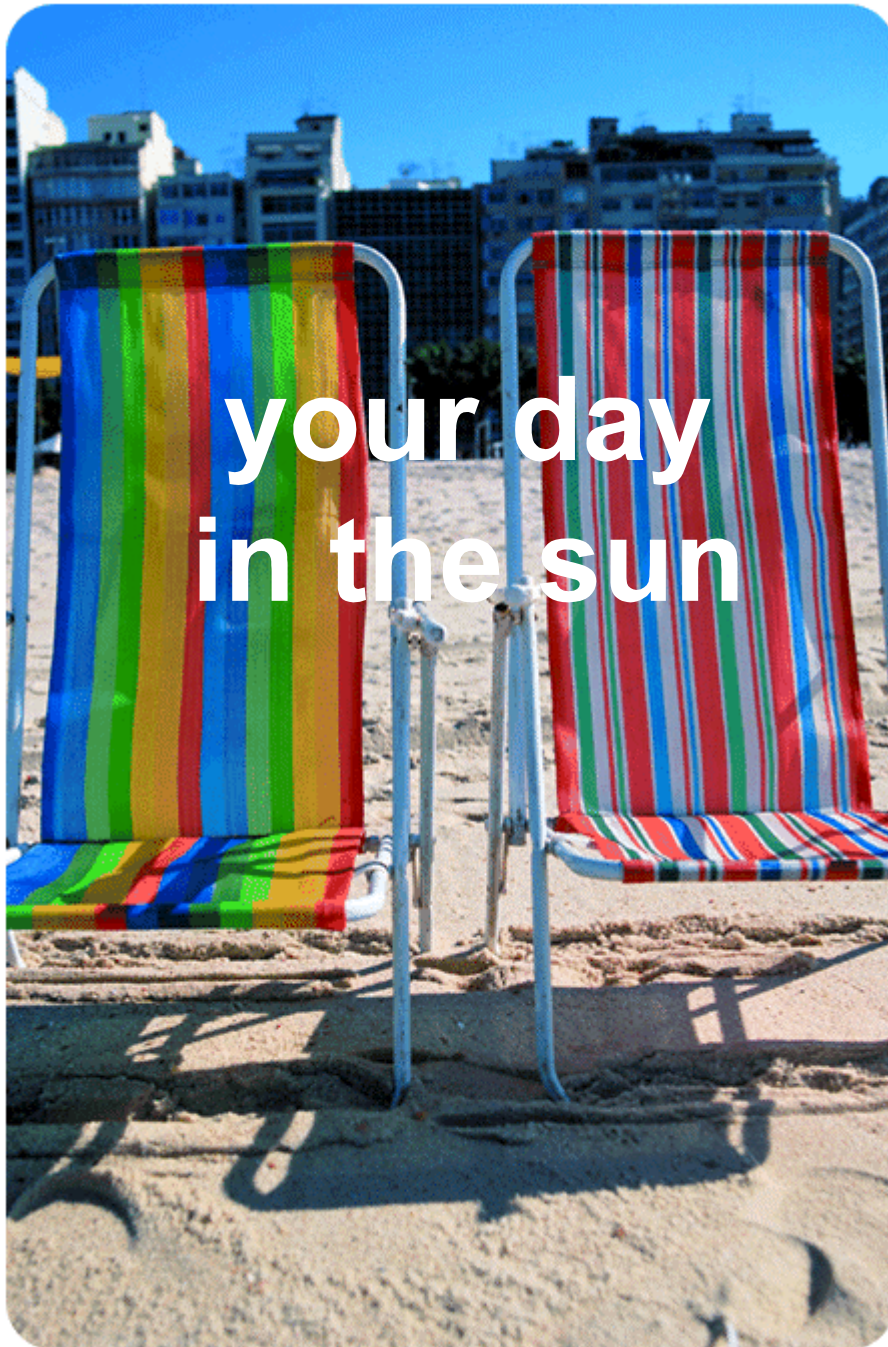
- reduce porting effort with Linux-compatible APIs

Linux Software Transition Kit

- improve productivity with tools
that find porting issues in source
code

Linux Porting Guide

- easier port from Linux to hp-ux
with porting steps and porting
issues
- Linux to hp-ux network device
driver guide



your day
in the sun

- better out of box experience - single package of Linux development tools for HP-UX
- enhanced source compatibility for Linux applications
- over 50 Open Source tools provides a familiar Linux development environment
- reduces porting effort via Linux-compatible APIs
- improves productivity with tools that find porting issues in source code
- available now for **FREE** on HP-UX PA-RISC and IPF



**Linux runtime
environment
version 1.0
(Linux ABI & APIs)**

**Linux LE Itanium
Runtime Environment**

- many libraries, commands, utilities, packages, marshalling layer

**Linux Software
Transition Kit**

- improve productivity with tools that scans binaries

**Linux Runtime
Environment White
Paper**

- document binary compatibility between Linux & hp-ux process & issues



- developed Linux Itanium application, deployed on mission critical HP-UX Itanium unaltered
- build once on Linux Itanium, run on BOTH Linux and HP-UX IPF
- seamless execution on HP-UX Itanium with no code changes
- reduce build and support cost
- FREE

developer's experience: Linux runtime environment (Linux ABI)

1.

build DBM dBase
on Linux Itanium

2.

move DBM dBase
to hp-ux Itanium

3.

run DBM dBase
on hp-ux Itanium



Linux Itanium

Application, tools, shared libs



HP-UX Itanium
(or Linux Itanium)

run shared, userspace Linux Itanium apps on hp-ux Itanium

availability

Q3,01

- Linux to hp-ux network driver porting guide available
- beta of the Linux porting kit for IPF available
- Demo at O'Reilly Open Source Conf

Q4,01

- Linux porting kit for IPF available
- LPK bundled with HP-UX OS shipment
- Demo at HP World and Linux World Expo

Q2,02

- beta of the Linux runtime environment available
- Demo at Linux Showcase

Q3,02

- Linux runtime environment available



no-charge web download
and cd orderable
from the web

<http://www.linux.hp.com>

Keyword: developers resources

opted for
open source
development with a
target for mission
critical deployment



Linux Runtime Environment Kit

- develop on Linux, deploy to HP-UX
- run “Linux” applications on HP-UX with mission critical features
- reduce build and support costs for multi-OS opportunities
- free download

Linux Porting Kit

- reduce porting efforts with over 50 Open Source tools and 96% of Linux core APIs
- improve productivity with scanner tools to find porting issues
- simplify developer’s experience with this out-of-the-box porting kit
- free download and CD at www.devresource.hp.com/LPK



future references

developer's tools

<http://devresource.hp.com>

<http://devresource.hp.com/LPK>

Linux web site from hp

www.linux.hp.com

keywords = developer's
resources



i n v e n t

thank you!

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