

# Oracle\* and IA-64

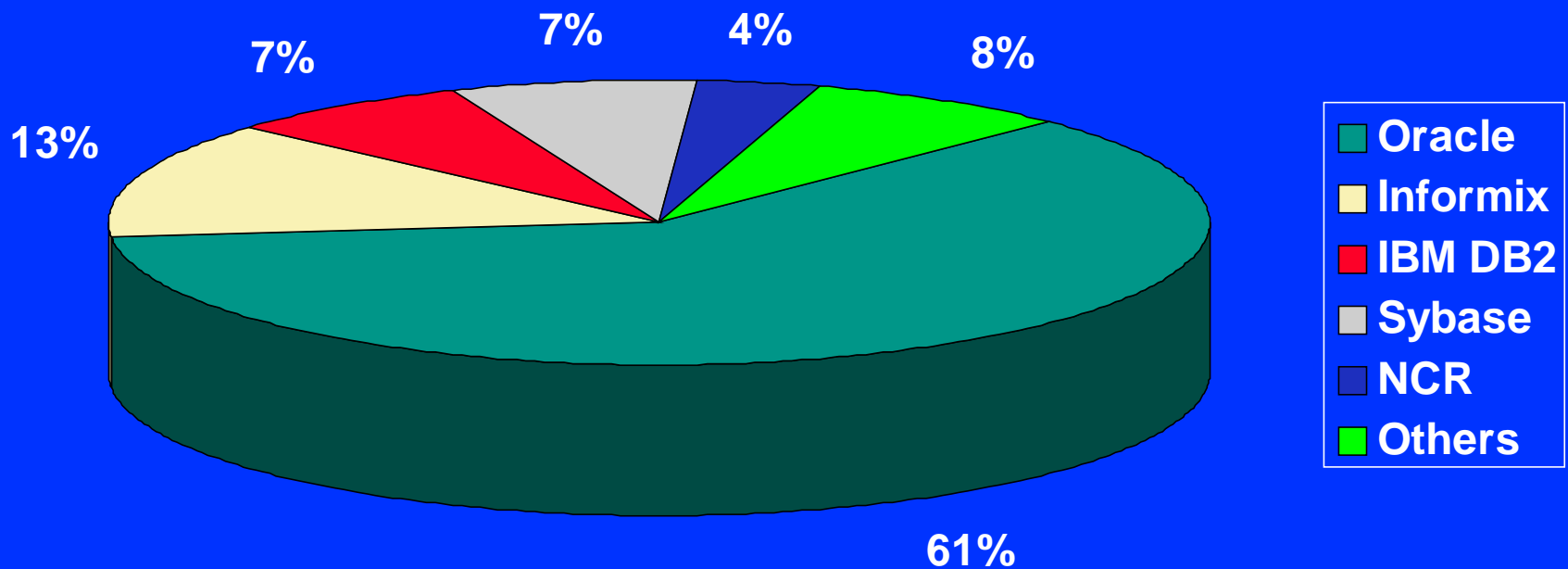
**Raja Srinivasan**  
**Director, Intel Division**  
**Oracle Corporation**

# Agenda

- **Oracle Products and Solution Stack**
  - Industry can expect IA-64 Oracle platform at launch
- **Supported Platforms**
  - Oracle solution will be available on all major IA64 OS platforms
- **IA-64 Challenges**
  - OEM and ISVs need to address certain concerns such as co-existence of platforms
- **Industry Participation**
  - Oracle platform taking advantage of industry standards
- **Resource Kits**
  - Use these to build an IA64 solution on top of Oracle

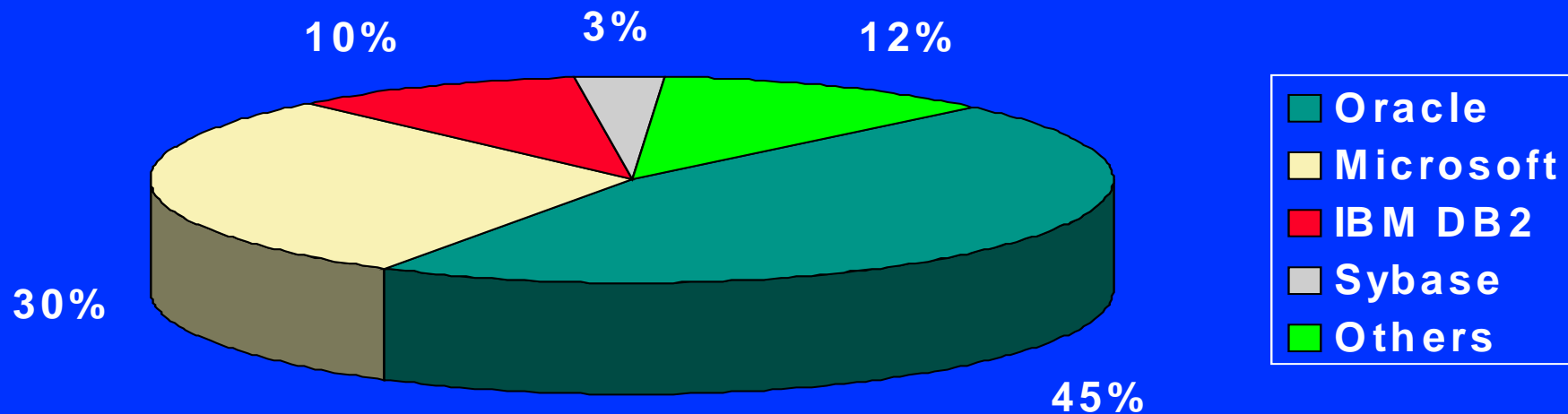
# Oracle Leads UNIX RDBMS Market

UNIX RDBMS Market Share 1998












# Oracle Leads Windows NT RDBMS Market

Windows NT RDBMS Market Share 1998



# Top Business Web Sites

- Marshall Industries 
- Cisco Systems 
- Bay Networks 
- Dell 
- Compaq 
- Federal Express 
- IBM 
- W.W. Grainger 
- 3 COM 
- First Union Corp 

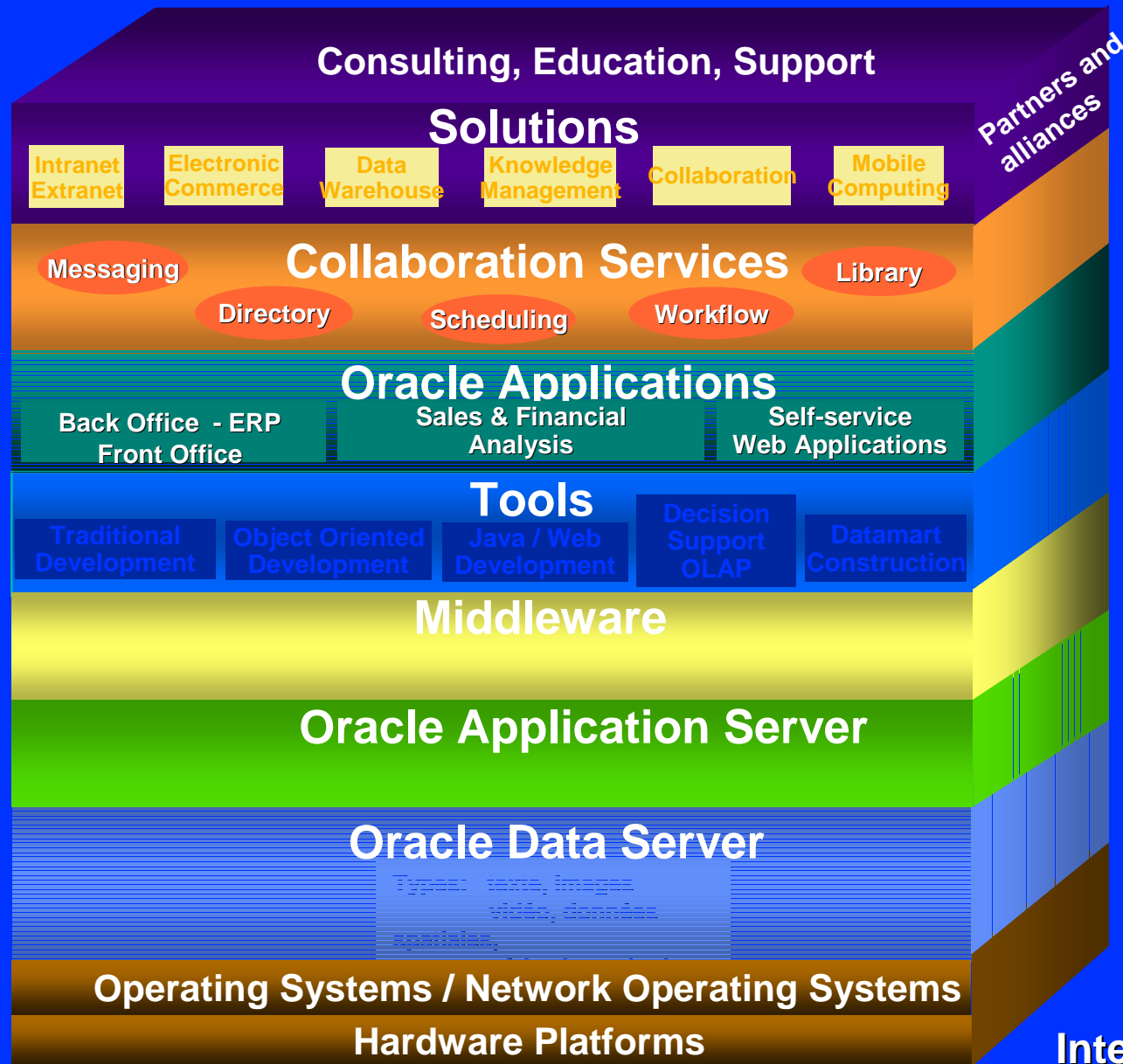
9 Out Of 10  
Powered By Oracle

# Top Consumer Web Sites

- 1800 Flowers 
- Amazon 
- CDNOW 
- Charles Schwab
- Cisco 
- Dell Computers
- E-Trade 
- NECX 
- OnSale 
- REI 

**10 Out Of 10  
Powered By Oracle**

# Oracle: Complete and Integrated Solutions



# Products for IA-64

- Oracle8i Database Server
- Oracle Express OLAP Server
- Oracle Developer Server
- Oracle Application Server



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# Major Platforms

32 bit

64 Bit

Solaris Sparc	Now	Now
Solaris IA	Now (IA-32)	Proposed (IA-64)
Windows	Now (IA-32)	Proposed (IA-64)
HP-UX (PA Risc)	Now	Now
HP-UX (IA-64)		Proposed (IA-64)
IBM AIX	Now	Now
Project Monterey (IA-64)		Proposed (IA-64)
Compaq Alpha Tru64		Now
Linux	Now (IA-32)	Proposed (IA-64)
IBM Numa Q	Now	Proposed (IA-64)(?)
DG-UX	Now	
SGI IRIX	Now	Now
SCO Unixware	Now	
SNI Reliant UNIX 64		Now
IBM OS/390	Now	
Novell Netware/Modesto	Now	Proposed (IA-64)

# New Platforms for IA-64

- **IBM Monterey/64**
  - Sequent, SCO, Compaq, Unisys, ICL, Bull
- **HP-UX IA-64**
  - Hitachi, NEC
- **Sun Solaris IA-64**
  - NCR, Siemens, Fujitsu, Toshiba, Amdahl
- **Linux Trillian**
  - VA Linux, Cygnus, SGI, CERN, IBM, HP
- **Microsoft Windows 2000 64-bit**
- **Novell Modesto**

# New Standards

- **Hardware**
  - DIG-64: Platform blueprint
  - InfiniBand: I/O (replacing PCI, etc)
- **O/S**
  - UNIX98: Posix standard (The Open Group)
  - UDIG: Firmware, systems management
  - UDG-PI: IBM-led, promising
- **Result**
  - Vendors are working together to standardize
  - O/Ss more aligned
  - Oracle co-operating in setting standards

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# IA-64 Build Strategies

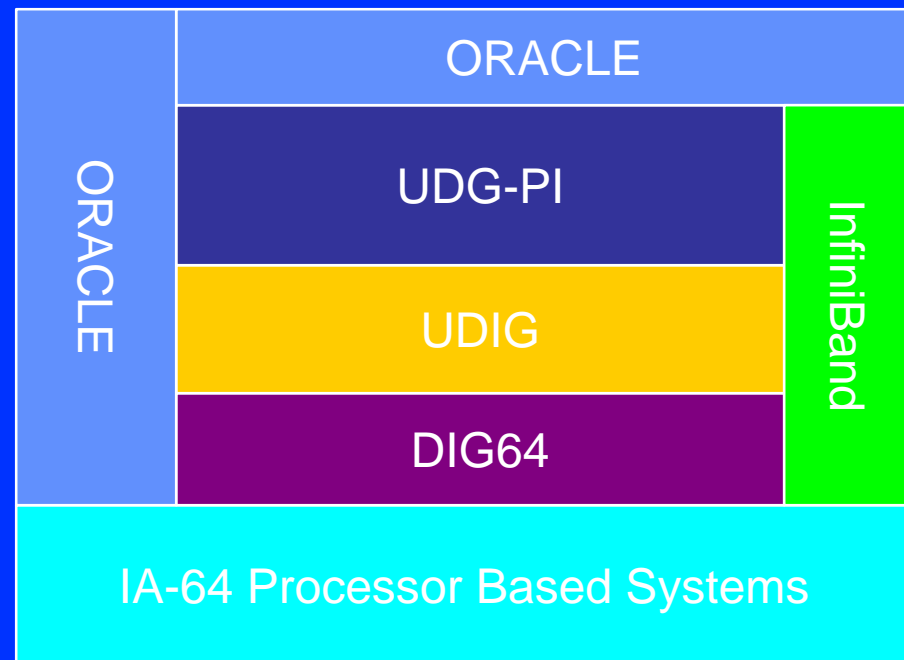
- **Support all viable platforms**
  - HP-UX, Monterey, Win64, Linux, Solaris
- **Ready at launch with Oracle products**
  - *8i* released & supported
  - Express, Tools, Apps to follow quickly
  - Re-enforcing Oracle as 64-bit leader
- **Vendor Objectives**
  - Common ABI on IA-64
  - Make IA-64 a premier build

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# IA-64 driving industry forums

- DIG64
- UDIG
- UDG-PI
  - TOG
  - UNIX2001
- InfiniBand





# Industry Participation

- **DIG64:**
  - “Appliance Certification”
  - “Oracle Parallel Server Certification”
  - Boot-strapping on minimal Operating System
  - Hardware support for Oracle’s Internet Platform Performance (eg. NUMA)
- **UDIG:**
  - Systems Management Features

# Industry Participation

- **UDG-PI:**
  - Features for better performance
  - Features for Better Systems Management
  - Common ABIs and APIs eases builds
- **Infiniband:**
  - Specifications for OPS & NET8 development
  - Drive vendors to support a common interconnect and fabric architecture and optimize Oracle on that platforms
  - Drive OPS certification requirements

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# IA-64 Resource Kit Objectives

- **Create market demand for IA64 systems by**
  - Enabling IA64 development
  - Enabling IA64 deployment
  - Co-existence with IA32 and RISC platforms
  - Support for multiple operating systems
  - Building and supporting Very Large Databases
  - Building and supporting In-Memory Databases
  - Business Intelligence on IA64 systems

# Audience

- **Oracle's preferred partners**
  - ISVs that complement Oracle Products
    - CAI partners
    - Development partners
- **Systems Integrators**
  - Big x, EDS, Hardware Vendors SI Units, Internet Integrators, Oracle Consulting
- **Major Customers**
  - Investors in IA64 fund
  - Recipients of IA64 fund
  - ISVs targeted by IHVs and OSVs

# IA64 Offerings – What are they

- **Seminars**
- **Workshops**
- **Project Plan Templates**
- **How-to Guides**
- **Low level Tools, Techniques, Methodology**

# IA64 Resource Kits - What are they?

- **Presentation Material**
  - Business Content
  - Technical Content
- **White Papers**
  - Business
  - Technical
- **Tools, Scripts, Templates**
- **Assistance resources**
  - Hardware, OS, Database, Development assistance, Labs etc.

# IA-64 Resource Kits

- **Get ready for IA-64**
- **Single Source Multi OS options**
- **Migrating to IA-64**
- **IA-64 and current hardware co-existence**
- **Change Management**
- **VLDB, VLMDDB**



# Resource Kit #1: Get Ready for IA-64

## Content:

- What is IA-64
- Why IA-64
- Oracle Technology on IA-64
- What can you do today
  - Complete functionality & Code Freeze
  - Utility to check C and C++ Code
  - Use of ASC labs for migrations
  - Refine application for 64-bit support

# Resource Kit #2: Single source multi OS support

## Content:

- **Tips and Techniques for supporting**
  - AIX on PowerPC
  - HP-UX (PA-RISC and IA-64)
  - Linux (IA-32 and IA-64)
  - Project Monterey
  - Tru64
  - Win32 and Win64
  - Others

# Resource Kit #3: Migrating to IA-64

## Content:

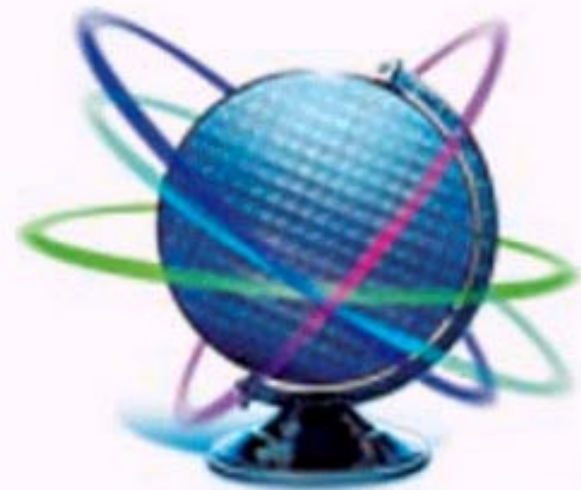
- Utilities available for 'C' and 'C++' code checking
- Tips and Techniques
- Options:
  - Native 64 bit
  - Native 64 bit but compiled with 32 bit libraries
  - 32 bit binaries
- ASC lab experience

# Conclusion

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## Get Ready for IA64!

Intel  
**Developer**  
Forum  
Spring 2000



intel®

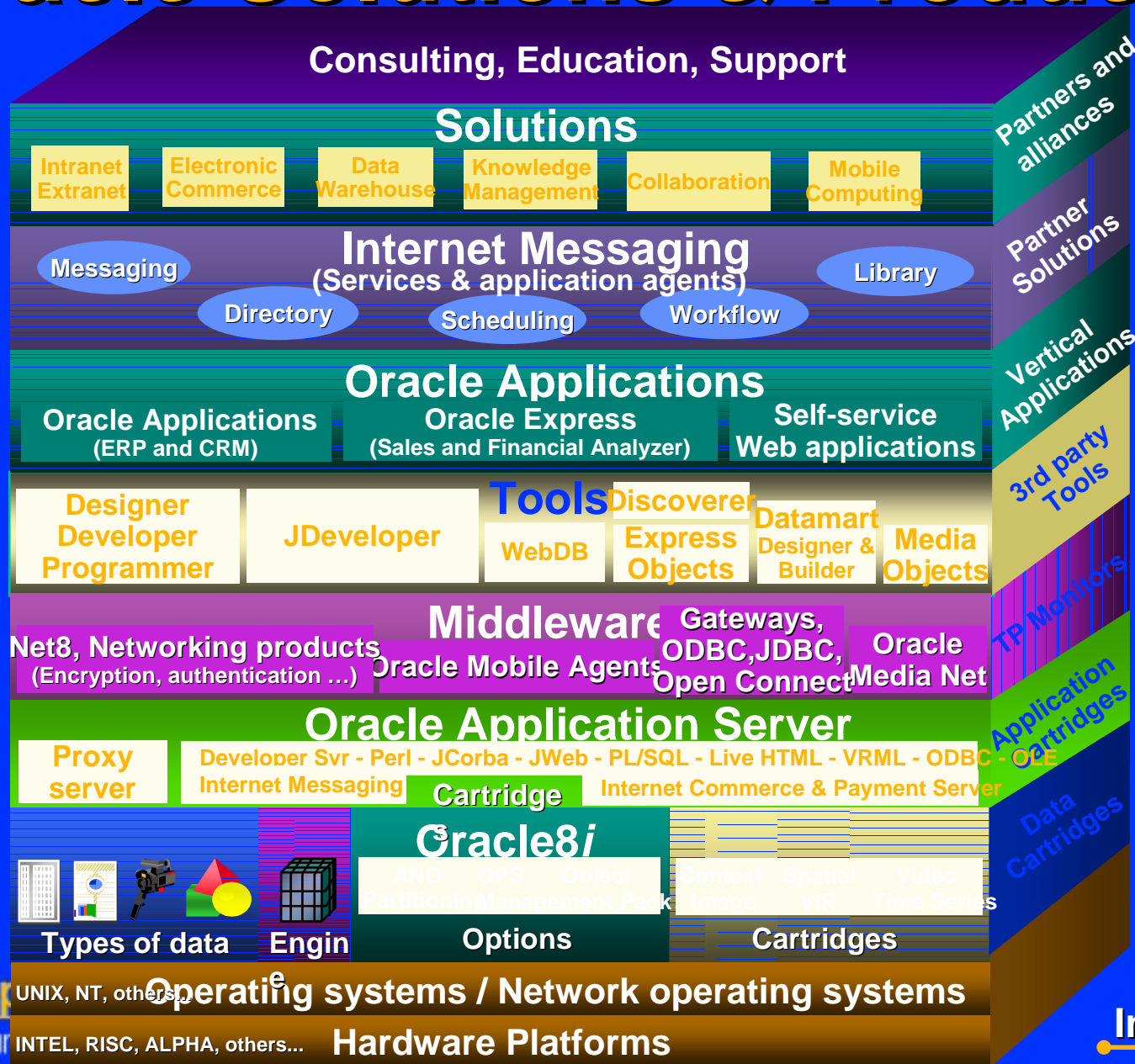
# Backup

# Key Web Integrators

18 Web Integrators  
partnering with Oracle

- Agency.com
- Sapient
- USWeb/CKS
- Viant
- iXL
- Scient
- Razorfish
- Organic OnLine
- Cambridge Tech Partners
- US Interactive
- T3 Media
- Nicholson NY
- Modem-Media Poppe  
Tyson
- C-Bridge
- Zefer
- Proxicom
- AnswerThink
- Bowne Internet

# Oracle Solutions & Products



Intel Developer

Forum Spring 2000

November 1998

