

Java Runtime Project Review

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Plaintiff's Exhibit

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Comes V. Microsoft

Key Features

- Continued performance leadership
- New Garbage Collector
- ActiveX-Beans integration
- Capabilities-based security model
- Package management
- Debugging/profiling support
- Application Foundation Classes
- DirectX3 and Direct Animation Java wrappers
- Internationalization
- MCF
- Win32 DLL calling
- JDK 1.1 support

Schedule - Beta 2

- Week of May 26 - Code Complete/Bug Bash
- Week of June 2 - Begin restricted checkins; start daily IE4 drops
- Week of June 9 - More restricted checkins; strict war team approval *10/2*
- Week of June 16 - Steady state of ZERO P1 bugs; fix shipstoppers only
- Week of June 23 - Release candidates

Post Beta 2 Work Items

- Native System Library Support/MCF
- Package Management Enhancements
- Security Model Refinements
- ActiveX/Beans Enhancements, JAR integration
- JIT Debugging
- AWT Enhancements - Clipboard, 1.1 merge
- Disco Object Clusters
- Performance
 - GUI Perf tuning
 - Working set reduction
 - Load time improvements

Bug Stats

- Pri 1 HOT - 17
- Pri 1 - 204
- Pri 2 - 235
- Pri 3 - 15
- Incoming Pri 1 rate ~20/day

Test Strategy

- Comprehensive BVTs
- Applet Compatibility
- JCK
- SDK
- Test Development
 - | Class Library - AFC, Disco.
 - | Test tools - automation/distribution
 - | VM
 - | Package management
 - | Security
 - | COM
 - | ActiveX/Beans
- Stress

Footprint

- Download size to IE4
 - 2.6MB x86
 - 2.1MB Alpha
- Further reduction possible?

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Strategy

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Microsoft's Commitment to Java

100% Committed to World's Best Java

- Programming language neutral
 - Extend Java language/VB support
 - Integrate well with OLE installed base
- Many unmet needs
 - Exposing Win32 benefits to Java
 - Enhancing perf through native code
- Market driven
- Great business model fit
- Making end-to-end investment

Make developers successful

- Choice - write LCD cross platform and full-fledged Windows applications in Java
- Fully exploit customer software and hardware investments
- Provide a business model

Microsoft Java Investments

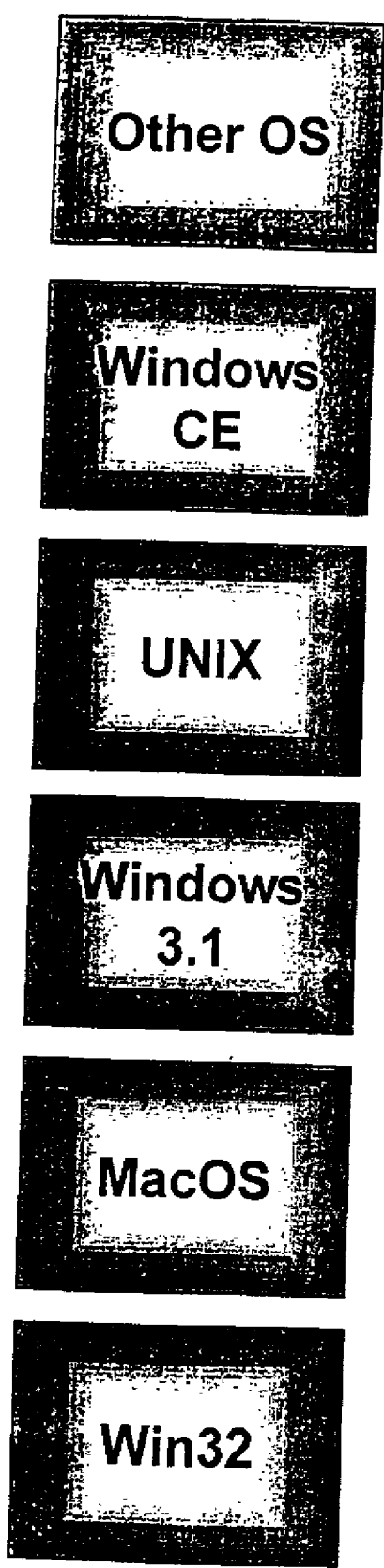
Class Libraries



Virtual Machine



Operating System



Competitive Situation - Netscape

- Early leader on Java
- Falling behind
- Abandoning platform ambitions
- Diverging from Sun on security
- Missing Beans support in Nav4
- Tension with Sun but will unite against Microsoft if pushed

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Strategic Challenges

- How to support the language but not the platform
- Kill 100% Pure Java
- Burst the bubble without being the bully
- Enlist allies
- Stop standardization scam
- JavaSoft relationship