

BZ Media

**Fourth Annual
Java Use and Awareness
Study**

**A BZ Research Report
November 2004**

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Methodology – November 2004 Study

An e-mail was delivered to 15,000 randomly selected subscribers to SD Times inviting them to participate in a Java study. Excluding bounces, the net number of surveys delivered was 14,851. The purpose was to ascertain the use of Java and Java development technology in their companies and their awareness of Java tool vendors. The study was e-mailed on November 15, 2004, and cut off and tabulated by BZ Research on November 24, 2004. A total of 757 subscribers, or 5.1% of the respondents, completed the survey, although not all of them answered every question.

BZ Research designed, conducted and tabulated the study. BZ Research is a division of BZ Media, publisher of SD Times.

Methodology – November 2003 Study

An e-mail was delivered to 15,000 randomly selected subscribers to SD Times inviting them to participate in a Java study. Excluding bounces, the net number of surveys delivered was 14,505. A chance to win a 4-megapixel Nikon Coolpix 4300 digital camera with a \$400 value was offered as an incentive to complete the survey. The purpose was to ascertain the use of Java and Java development technology in their companies and their awareness of Java tool vendors. The study was e-mailed on November 10, 2003, and cut off and tabulated by BZ Research on November 15, 2003. A total of 949 subscribers, or 6.5% of the respondents, completed the survey, although not all of them answered every question.

BZ Research designed, conducted and tabulated the study. BZ Research is a division of BZ Media, publisher of SD Times.

Methodology – August 2002 Study

An e-mail was delivered to 23,000 randomly selected subscribers to SD Times inviting them to participate in a Java study. Excluding bounces, the net number of surveys delivered was 22,354. The purpose was to ascertain the use of Java and Java development tools in their companies, attributes they look for in certain tools and overall awareness of Java tool vendors. The study was e-mailed on August 12, 2002, and cut off and tabulated by BZ Research on August 15, 2002. A total of 1,425 subscribers, or 6.4% of the respondents, completed the survey.

The size of the survey, particularly on the awareness question, was large enough that better results would come from breaking up the study into four separate studies, each containing the same three initial questions, and then asking a unique group of questions for each subset. The responding base was clearly marked for each question. Responses were as follows:

Survey #1 Incentive: Drawing for a \$250 gift certificate from Amazon.com
5,550 surveys delivered, 344 responses, 6.2%

Survey #2 Incentive: None
5,602 surveys delivered, 324 responses, 5.8%

Survey #3 Incentive: Drawing for a \$300 Nikon Coolpix Digital Camera
5,591 surveys delivered, 382 responses, 6.8%

Survey #4 Incentive: Drawing for a \$250 gift certificate from Amazon.com
5,611 surveys delivered, 375 responses, 6.7%

BZ Research designed, conducted and tabulated the study. BZ Research is a division of BZ Media, publisher of SD Times.

Universe Selection

BZ Research surveys the attitudes, attributes and plans of software development managers, software architects and software development team leaders who subscribe to SD Times, the newspaper for software development managers. The universe comprises IT professionals, 78% of which are in the U.S., and 22% are worldwide across more than 130 countries.

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In terms of the universe studied, SD Times readers have the following characteristics:

Job Title/Function

CIO/VP/IT/manager/director	15.4%
Software/applications development managers	19.3%
Chief software architects/project managers	20.1%
Software engineering managers/engineers	12.8%
Senior developers	10.3%
Corporate management	10.2%
Corporate consultants/other IT management	6.4%
Other professionals	6.4%

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Primary Business Activity of Company

Manufacturing (hardware & software)	14.4%
Consulting services	13.5%
Finance/accounting/insurance/real estate/legal	14.1%
Other	10.9%
Government/defense/aerospace	10.6%
Manufacturing (not computer hardware/software)	8.1%
Communications/datacom/telecom/ISP	6.8%
VAR/systems integrator	6.3%
Medical equipment/health care/services	5.0%
Multimedia/education	4.3%
Transportation/engineering/automotive	3.0%
Media/marketing/advertising/entertainment	2.7%
Mining/agriculture/oil	1.1%

Source for above: SD Times BPA Statement, June 2004

QUESTION 1. Are you, your company or the companies to whom you consult using Java for software development?

	<u>Nov. 2003</u>	<u>Nov. 2004</u>
Yes, am using Java today	72.2%	75.8%
No, but expect to within the next 6 months	5.3%	2.9%
No, but expect to within 6 to 12 months	5.9%	4.0%
No, do not expect to be using Java within the next year	16.7%	16.4%
Don't know	n/a	0.9%
Net: Use or expect to use Java within the next year	83.3%	82.7%
Base of respondents:	949	757

QUESTION 2. Which editions of Java are currently in use at your company, or do you expect to be in use within the next 12 months?

	<u>Nov. 2003</u>	<u>Nov. 2004</u>
Java 2 Enterprise Edition (J2EE)	67.3%	66.9%
Java 2 Standard Edition (J2SE)	58.1%	62.4%
Java 2 Micro Edition (J2ME)	12.9%	11.6%
Do not plan to use Java	15.6%	15.6%
Don't know	n/a	3.6%
Base of respondents:	943	752

QUESTION 3. Where do you intend to deploy Java applications within the next 12 months?

	<u>Aug. 2002</u>	<u>Nov. 2003</u>	<u>Nov. 2004</u>
On servers	84.5%	87.4%	91.6%
On desktop clients	58.3%	57.7%	57.1%
On wireless or mobile clients	19.0%	24.4%	22.7%
Within embedded systems	11.2%	11.4%	9.9%
Base:	1,126	792	618

2004 Base: 618 respondents (82.3% of total respondents) who plan to deploy Java somewhere within the next 12 months

2003 Base: 792 respondents (83.8% of total respondents) who plan to deploy Java somewhere within the next year

2002 Base: 1,126 respondents (79.0% of total respondents) who are using or intend to use Java within the next year

QUESTION 4. At what stage of Java development and deployment is your company (or the companies to whom you consult)?

	<u>Nov. 2003</u>	<u>Nov. 2004</u>
Have deployed production systems	55.2%	64.9%
Developing production system, but no deployment yet	10.2%	7.7%
Developing pilot projects, but have not begun building production systems	9.6%	5.3%
Studying the technology, but have not even started on pilots	10.0%	7.6%
Do not intend to develop for Java	12.3%	13.6%
Don't know	2.8%	0.8%
Base of respondents:	944	750

Java Study November 2003 Results Compared with Microsoft
.NET Adoption Study June 2003

Java Study: November 2003: At what stage of Java development and deployment is your company (or the companies to whom you consult)? (please check one only)

Microsoft .NET Study: July 2003: At what stage is your company (or the companies to whom you consult) with .NET development and deployment? (please check one only)

	<u>Java</u>	<u>.NET</u>
Have deployed production systems	55.2%	16.8%
Developing production systems, but no deployment yet	10.2%	11.4%
Developing pilot products, but have not begun developing production systems	9.6%	14.2%
Studying the technology, but no development yet	10.0%	28.3%
No plans to develop for Java/.NET (respectively)	12.3%	26.3%
Don't know	2.8%	2.5%
Base:	944	1,211

Java Study November 2004 Results Compared with Microsoft
.NET Adoption Study July 2004

	<u>Java</u>	<u>.NET</u>
Have deployed production systems	64.9%	29.8%
Developing production systems, but no deployment yet	7.7%	11.9%
Developing pilot products, but have not begun developing production systems	5.3%	10.2%
Studying the technology, but no development yet	7.6%	19.4%
No plans to develop for Java/.NET (respectively)	13.6%	26.1%
Don't know	0.8%	2.6%
Base:	750	931

QUESTION 5. What types of systems are you integrating J2EE applications with?
(Please check all that apply)

Other J2EE/Java applications	52.0%
Legacy Windows (i.e. Win32 applications)	28.0%
Native (non-Java) Linux or Unix applications	27.5%
Are not integrating J2EE applications	24.7%
E-commerce or e-business systems	24.5%
Midrange/Mainframe applications	24.3%
Service-oriented architectures	24.1%
Microsoft .NET applications	21.2%
CRP or ERP systems	18.4%
EDI-based trading or commerce networks	8.6%
Other (please specify)	3.4%
Base of respondents:	746

QUESTION 6. Which Java APIs or other technologies does your company (or the companies to whom you consult) currently use or plan to use within the next 12 months?

	<u>Aug. 2002</u>	<u>Nov. 2003</u>	<u>Nov. 2004</u>
JDBC (Java Database Connectivity)	74.8%	88.9%	79.6%
Java Servlets	66.8%	81.7%	75.2%
Components, including JavaBeans and EJBs	52.6%	54.1%	64.1%
JSP (JavaServer Pages)	72.3%	84.0%	58.9%
Javadoc (documentation from source code)	38.7%	51.8%	57.0%
Java Web Services Framework	n/a	38.3%	50.3%
JMS (Java Message Service)	29.2%	38.3%	38.3%
JFC (Java Foundation Classes), AWT and Swing	40.1%	47.4%	36.4%
J2EE Connector Architecture	36.5%	37.6%	34.8%
RMI (Remote Method Invocation)	27.4%	43.8%	33.3%
POJO (Plain Old Java Objects)	n/a	n/a	30.7%
JavaServer Faces	n/a	11.6%	26.4%
JDO (Java Data Objects)	28.5%	24.6%	24.3%
2D or 3D graphics APIs and libraries	23.7%	18.5%	23.0%
Java Cryptography Extension	n/a	n/a	23.0%
JMX (Java Management Extensions)	8.4%	14.5%	20.4%
Java Portlet API	n/a	n/a	19.7%
WSDP (Web Services Developer Pack)	n/a	18.7%	18.3%
Standard Tag Library	n/a	25.0%	18.3%
JTA (Java Transaction API)	n/a	n/a	18.1%
Any of the JAX-xxx family and related protocols	n/a	13.5%	17.2%
J2ME Wireless Toolkit	n/a	16.9%	13.3%
Java Compiler API	n/a	16.2%	12.8%
Jini	14.2%	11.1%	11.0%
WS-I Basic Profile	n/a	6.9%	9.7%
J2ME Foundation Profile	n/a	11.5%	9.4%
Non-Java languages running with the JVM	n/a	n/a	9.1%
Others	n/a	6.1%	8.4%

(continued...)

QUESTION 6. Which Java APIs or other technologies does your company (or the companies to whom you consult) currently use or plan to use within the next 12 months?

(continued from previous page)

	<u>Aug. 2002</u>	<u>Nov. 2003</u>	<u>Nov. 2004</u>
Service Data Objects	n/a	n/a	8.1%
Enterprise Media Beans	n/a	n/a	8.1%
JNLP (Java Network Launching Protocol)	n/a	n/a	7.3%
Java Data Mining API	n/a	n/a	6.8%
JMI (Java Metadata Interface)	n/a	6.6%	5.7%
JCACHE (Java Temporary Caching API)	n/a	n/a	5.3%
JavaCard (smart cards)	4.4%	3.5%	4.9%
JXTA (peer-to-peer networking)	6.6%	6.8%	4.4%
Java Location API	n/a	n/a	4.4%
Java Agent Services	n/a	n/a	3.7%
JAIN (Java Advanced Intelligent Network API)	n/a	n/a	3.6%
Real-Time Specification for Java	n/a	6.5%	3.4%
Mobile Media API	n/a	7.2%	3.1%
JTAPI (Java Telephony API)	7.7%	4.7%	3.1%
OSGi (Open Services Gateway Interface Spec)	n/a	n/a	3.1%
JOLAP (Java OLAP Interface)	n/a	n/a	2.9%
JXQ (Java XQuery API)	n/a	n/a	2.8%
JBI (Java Business Integration)	n/a	n/a	2.6%
JavaDesk	n/a	3.8%	2.3%
JESI (JSP Tag Library for Edge Side Includes)	n/a	n/a	2.1%
OSS (Operations Support Systems) specs	n/a	n/a	1.8%
JPay (Java Payment API)	n/a	n/a	1.0%

2004 Base: 618 respondents (82.3% of total respondents) who plan to deploy Java somewhere within the next 12 months

2003 Base: 792 respondents (83.8% of total respondents) who plan to deploy Java somewhere within the next year

2002 Base: 1,126 respondents (79.0% of total respondents) who are using or intend to use Java within the next year

QUESTION 7. Which Java application servers are currently in use at your company (or at the companies to whom you consult)?

	<u>Aug. 2002</u>	<u>Nov. 2003</u>	<u>Nov. 2004</u>
JBoss' Application Server	13.9%	26.9%	34.8%
IBM's WebSphere App Server	29.0%	40.1%	33.9%
BEA's WebLogic	24.5%	34.6%	28.7%
Oracle's 8iAS, 9iAS, 10gAS	20.8%	29.1%	22.0%
Sun Java System Application Server (Sun ONE App Server)	11.8%	13.9%	13.8%
Macromedia's JRun	14.7%	10.3%	7.9%
Borland's AppServer or Enterprise Server	9.4%	8.4%	3.4%
Orion's Server	0.8%	3.3%	2.8%
Sybase's EAServer	3.3%	2.4%	1.5%
Apple's WebObjects	3.3%	2.0%	1.5%
Novell's eXtend	2.0%	2.0%	1.5%
IONA's Orbix or ASP	2.0%	3.0%	1.1%
Other	n/a	11.1%	21.6%*
Don't know	9.0%	8.7%	14.5%

*Overwhelmingly Apache Tomcat

2004 Base: 617 total respondents

2003 Base: 700 respondents (74.9% of total respondents) who use a Java application server

2002 Base: 245 respondents (79.0% of total respondents surveyed on this question) who are using or intend to use Java within the next year

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QUESTION 8. Which Java development environments are currently in use at your company (or at the companies to whom you consult)?

	<u>Aug. 2002</u>	<u>Nov. 2003</u>	<u>Nov. 2004</u>
Eclipse	n/a	34.5%	56.2%
Borland's JBuilder or Enterprise Studio for Java	34.7%	36.9%	23.8%
IBM's WebSphere Studio Application Developer	n/a	25.2%	21.5%
Sun's NetBeans	n/a	13.4%	18.1%
Oracle's JDeveloper	24.7%	20.9%	16.5%
JetBrain's IntelliJ IDEA	3.8%	8.1%	12.3%
BEA's WebLogic Workshop	11.7%	11.9%	8.6%
Microsoft's Visual J++ or Visual J# .NET	25.1%	14.5%	8.6%
IBM's VisualAge for Java	n/a	15.4%	7.7%
Sun's Sun ONE Studio	n/a	10.5%	6.7%
Sun's Forte for Java	n/a	11.9%	4.6%
Borland/TogetherSoft's Control Center	4.1%	7.1%	3.3%
Sybase's PowerBuilder	5.5%	3.2%	3.1%
Apple's Project Builder or Xcode	n/a	1.9%	2.7%
SlickEdit's Visual SlickEdit	3.8%	2.5%	2.7%
In-house-developed IDE	n/a	2.7%	2.4%
Compuware's OptimalJ	1.0%	1.2%	0.6%
Other	n/a	6.5%	10.0%
Don't know	4.5%	6.3%	8.5%

2004 Base: 673 total respondents

2003 Base: 775 respondents (82.6% of question respondents) who use Java development environments

2002 Base: 291 respondents (81.2% of total respondents surveyed on this question) who are using or intend to use Java within the next year

QUESTION 9. To help us benchmark the awareness of vendors in the Java market, which of these companies have you heard of?

Ranked in Order of Awareness

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>
1. Borland	91.2%	95.1%	95.1%	93.1%
2. Oracle	98.1%	93.0%	89.4%	91.5%
3. Macromedia	n/a	89.8%	82.1%	86.5%
4. BEA	70.7%	71.5%	79.2%	86.3%
5. Sybase	n/a	75.5%	79.0%	84.2%
6. SAP	n/a	n/a	n/a	81.6%
7. JBoss	n/a	36.7%	59.0%	76.8%
8. Compuware	46.6%	49.8%	64.0%	65.1%
9. Quest Software	n/a	n/a	51.7%	52.1%
10. Software AG	n/a	48.1%	38.4%	48.1%
11. Parasoft	34.0%	39.4%	36.1%	45.7%
12. Embarcadero	n/a	42.0%	28.3%	44.9%
13. IntelliJ/JetBrains	n/a	26.5%	34.8%	43.4%
14. Mercury Interactive	34.0%	31.8%	32.3%	40.5%
15. Altova	n/a	7.3%	27.6%	39.6%
16. Zero G	21.9%	27.5%	41.6%	37.8%
17. Sonic Software	n/a	28.5%	25.7%	34.3%
18. webMethods	n/a	33.9%	29.0%	34.1%
19. IONA	41.9%	41.1%	34.0%	33.1%
20. NetIQ	n/a	n/a	n/a	31.5%
21. Actuate	n/a	34.3%	22.4%	26.2%
22. ILOG	n/a	20.8%	19.6%	22.9%
23. PointBase	n/a	25.5%	21.7%	20.3%
24. WebGain	n/a	49.1%	29.1%	20.3%
25. DataDirect Technologies	n/a	19.7%	15.9%	19.0%

(continued...)

QUESTION 9. To help us benchmark the awareness of vendors in the Java market, which of these companies have you heard of?

Ranked in Order of Awareness

(continued from previous page)

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>
26. RealObjects	n/a	n/a	19.1%	18.4%
27. Software FX	n/a	12.8%	10.9%	17.4%
28. ESRI	n/a	n/a	12.9%	17.2%
29. NetManage	n/a	n/a	n/a	17.2%
30. Fair Isaac	n/a	n/a	5.6%	16.8%
31. Segue	24.4%	17.1%	11.5%	16.1%
32. Visual Paradigm	n/a	n/a	n/a	14.7%
33. Wily Technology	5.7%	5.7%	9.1%	14.6%
34. Popkin	n/a	15.9%	12.3%	14.3%
35. Inetsoft	n/a	12.0%	9.4%	13.7%
36. DataSource	n/a	n/a	n/a	12.8%
37. Bowstreet	n/a	n/a	n/a	12.5%
38. Versata	n/a	n/a	10.7%	12.2%
39. Systinet	n/a	7.3%	8.2%	12.1%
40. ICEsoft Technologies	n/a	n/a	n/a	11.4%
41. Cape Clear	10.7%	8.8%	9.9%	10.8%
42. Agitar Software	n/a	n/a	n/a	9.8%
43. Fiorano	n/a	11.7%	7.8%	8.6%
44. Tangosol	n/a	n/a	n/a	8.2%
45. Codemesh	n/a	3.3%	5.2%	8.2%
46. Oak Grove Systems	n/a	n/a	7.1%	8.2%
47. Canoo Engineering	n/a	1.6%	3.8%	7.5%
48. InSession Technologies	n/a	3.2%	1.7%	7.4%
49. RadView	n/a	5.8%	6.8%	7.3%
50. Exadel	n/a	n/a	n/a	7.1%

(continued...)

QUESTION 9. To help us benchmark the awareness of vendors in the Java market, which of these companies have you heard of?

Ranked in Order of Awareness

(continued from previous page)

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>
51. Ensemble Systems	n/a	19.0%	7.5%	7.1%
52. Quadbase	n/a	n/a	n/a	6.6%
53. Zion Software	n/a	n/a	6.1%	6.5%
54. Jinfonet	n/a	4.5%	3.2%	6.1%
55. Instantiations	n/a	1.6%	4.0%	6.0%
56. Interactive TKO	n/a	n/a	2.7%	6.0%
57. SpiritSoft	n/a	8.5%	6.8%	5.9%
58. I-Way	n/a	n/a	n/a	5.6%
59. New Atlanta	n/a	7.3%	4.5%	5.6%
60. Rascal Software	n/a	n/a	n/a	5.4%
61. ClearNova	n/a	n/a	n/a	5.1%
62. GreenPoint	n/a	n/a	3.4%	4.9%
63. Report Mill	n/a	3.2%	3.6%	4.9%
64. Tom Sawyer Software	n/a	n/a	1.7%	4.9%
65. Visual Numerics	n/a	n/a	3.2%	4.9%
66. IronGrid	n/a	n/a	2.4%	4.1%
67. No Magic	n/a	5.5%	3.2%	4.0%
68. WebAppCabaret	n/a	n/a	n/a	3.8%
69. Northwoods	n/a	n/a	2.9%	3.7%
70. Enerjy	n/a	n/a	n/a	3.6%
71. PolarLake	n/a	n/a	n/a	3.4%
72. TeaLeaf Technology	n/a	n/a	n/a	3.4%
73. Recursion Software	n/a	n/a	1.9%	3.0%
74. Kenetiks	n/a	n/a	4.2%	2.9%
75. Dralasoft	n/a	n/a	n/a	2.9%

(continued...)

QUESTION 9. To help us benchmark the awareness of vendors in the Java market, which of these companies have you heard of?

Ranked in Order of Awareness

(continued from previous page)

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>
76. Ektron	n/a	n/a	4.2%	2.7%
77. Corda	n/a	7.3%	3.5%	2.6%
78. Prolifics	n/a	n/a	2.2%	2.3%
79. preEmptive	n/a	2.6%	1.8%	2.1%
80. Web Renderer (JadeLiquid)	n/a	n/a	n/a	2.1%
81. WinMill Software	n/a	n/a	n/a	2.1%
82. Pantero	n/a	n/a	n/a	1.8%
83. InferData	n/a	n/a	n/a	1.6%
84. Vintela	n/a	n/a	n/a	1.6%
85. Extentech	n/a	n/a	0.5%	1.6%
86. Intersperse	n/a	n/a	n/a	1.4%
87. Librados	n/a	n/a	n/a	1.4%
88. Synaptris	n/a	n/a	n/a	1.1%
89. Open Demand	n/a	n/a	2.1%	0.8%
90. Acsera	n/a	n/a	n/a	0.7%
91. H & W	n/a	n/a	n/a	0.7%
92. SandCherry	n/a	n/a	n/a	0.4%
93. Sesma	n/a	n/a	n/a	0.4%
Base:	365	1,126	938	728

2004 Base: 728 respondents to this question

2003 Base: 938 respondents to this question (total survey)

2002 Base: 1,126 respondents to this question that used or intended to use Java (79%)

2001 Base: 365 respondents to this question that used or intended to use Java (79%) (Sept. 2001)

QUESTION 9. To help us benchmark the awareness of vendors in the Java market, which of these companies have you heard of?

Ranked in Alphabetical Order

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>
Acsera	n/a	n/a	n/a	0.7%
Actuate	n/a	34.3%	22.4%	26.2%
Agitar Software	n/a	n/a	n/a	9.8%
Altova	n/a	7.3%	27.6%	39.6%
BEA	70.7%	71.5%	79.2%	86.3%
Borland	91.2%	95.1%	95.1%	93.1%
Bowstreet	n/a	n/a	n/a	12.5%
Canoo Engineering	n/a	1.6%	3.8%	7.5%
Cape Clear	10.7%	8.8%	9.9%	10.8%
ClearNova	n/a	n/a	n/a	5.1%
Codemesh	n/a	3.3%	5.2%	8.2%
Compuware	46.6%	49.8%	64.0%	65.1%
Corda	n/a	7.3%	3.5%	2.6%
DataDirect Technologies	n/a	19.7%	15.9%	19.0%
DataSource	n/a	n/a	n/a	12.8%
Dralasoft	n/a	n/a	n/a	2.9%
Ektron	n/a	n/a	4.2%	2.7%
Embarcadero	n/a	42.0%	28.3%	44.9%
Enerjy	n/a	n/a	n/a	3.6%
Ensemble Systems	n/a	19.0%	7.5%	7.1%
ESRI	n/a	n/a	12.9%	17.2%
Exadel	n/a	n/a	n/a	7.1%
Extentech	n/a	n/a	0.5%	1.6%
Fair Isaac	n/a	n/a	5.6%	16.8%
Fiorano	n/a	11.7%	7.8%	8.6%
GreenPoint	n/a	n/a	3.4%	4.9%

(continued...)

QUESTION 9. To help us benchmark the awareness of vendors in the Java market, which of these companies have you heard of?

Ranked in Alphabetical Order

(continued from previous page)

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>
H & W	n/a	n/a	n/a	0.7%
ICESoft Technologies	n/a	n/a	n/a	11.4%
ILOG	n/a	20.8%	19.6%	22.9%
Inetsoft	n/a	12.0%	9.4%	13.7%
InferData	n/a	n/a	n/a	1.6%
InSession Technologies	n/a	3.2%	1.7%	7.4%
Instantiations	n/a	1.6%	4.0%	6.0%
IntelliJ/JetBrains	n/a	26.5%	34.8%	43.4%
Interactive TKO	n/a	n/a	2.7%	6.0%
Intersperse	n/a	n/a	n/a	1.4%
IONA	41.9%	41.1%	34.0%	33.1%
IronGrid	n/a	n/a	2.4%	4.1%
I-Way	n/a	n/a	n/a	5.6%
JBoss	n/a	36.7%	59.0%	76.8%
Jinfonet	n/a	4.5%	3.2%	6.1%
Kenetiks	n/a	n/a	4.2%	2.9%
Librados	n/a	n/a	n/a	1.4%
Macromedia	n/a	89.8%	82.1%	86.5%
Mercury Interactive	34.0%	31.8%	32.3%	40.5%
NetIQ	n/a	n/a	n/a	31.5%
NetManage	n/a	n/a	n/a	17.2%
New Atlanta	n/a	7.3%	4.5%	5.6%
No Magic	n/a	5.5%	3.2%	4.0%
Northwoods	n/a	n/a	2.9%	3.7%

(continued...)

QUESTION 9. To help us benchmark the awareness of vendors in the Java market, which of these companies have you heard of?

Ranked in Alphabetical Order

(continued from previous page)

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>
Oak Grove Systems	n/a	n/a	7.1%	8.2%
Open Demand	n/a	n/a	2.1%	0.8%
Oracle	98.1%	93.0%	89.4%	91.5%
Pantero	n/a	n/a	n/a	1.8%
Parasoft	34.0%	39.4%	36.1%	45.7%
PointBase	n/a	25.5%	21.7%	20.3%
PolarLake	n/a	n/a	n/a	3.4%
Popkin	n/a	15.9%	12.3%	14.3%
preEmptive	n/a	2.6%	1.8%	2.1%
Prolifics	n/a	n/a	2.2%	2.3%
Quadbase	n/a	n/a	n/a	6.6%
Quest Software	n/a	n/a	51.7%	52.1%
RadView	n/a	5.8%	6.8%	7.3%
Rascal Software	n/a	n/a	n/a	5.4%
RealObjects	n/a	n/a	19.1%	18.4%
Recursion Software	n/a	n/a	1.9%	3.0%
Report Mill	n/a	3.2%	3.6%	4.9%
SandCherry	n/a	n/a	n/a	0.4%
SAP	n/a	n/a	n/a	81.6%
Segue	24.4%	17.1%	11.5%	16.1%
Sesma	n/a	n/a	n/a	0.4%
Software AG	n/a	48.1%	38.4%	48.1%
Software FX	n/a	12.8%	10.9%	17.4%
Sonic Software	n/a	28.5%	25.7%	34.3%

(continued...)

QUESTION 9. To help us benchmark the awareness of vendors in the Java market, which of these companies have you heard of?

Ranked in Alphabetical Order

(continued from previous page)

	<u>2001</u>	<u>2002</u>	<u>2003</u>	<u>2004</u>
SpiritSoft	n/a	8.5%	6.8%	5.9%
Sybase	n/a	75.5%	79.0%	84.2%
Synaptris	n/a	n/a	n/a	1.1%
Systinet	n/a	7.3%	8.2%	12.1%
Tangosol	n/a	n/a	n/a	8.2%
TeaLeaf Technology	n/a	n/a	n/a	3.4%
Tom Sawyer Software	n/a	n/a	1.7%	4.9%
Versata	n/a	n/a	10.7%	12.2%
Vintela	n/a	n/a	n/a	1.6%
Visual Numerics	n/a	n/a	3.2%	4.9%
Visual Paradigm	n/a	n/a	n/a	14.7%
Web Renderer (JadeLiquid)	n/a	n/a	n/a	2.1%
WebAppCabaret	n/a	n/a	n/a	3.8%
WebGain	n/a	49.1%	29.1%	20.3%
webMethods	n/a	33.9%	29.0%	34.1%
Wily Technology	5.7%	5.7%	9.1%	14.6%
WinMill Software	n/a	n/a	n/a	2.1%
Zero G	21.9%	27.5%	41.6%	37.8%
Zion Software	n/a	n/a	6.1%	6.5%
Base:	365	1,126	938	728

2003 Base: 728 respondents to this question

2003 Base: 938 respondents to this question (total survey)

2002 Base: 1,126 respondents to this question that used or intended to use Java (79%)

2001 Base: 365 respondents to this question that used or intended to use Java (79%) (Sept. 2001)

JavaSurveyinvite1.txt

Subj: SD Times 4th Annual Java Study

Dear SD Times subscriber,

I'd like to invite you to take part in SD Times' 4th Annual Java Study.

We've developed this study to track the trends and technologies involved with the adoption of the platform; we're able to take not only a snapshot of how Java is used today, but also to see how its use have evolved over the past four years.

Even if you don't use Java technologies, your input is valuable!

Aggregate results of the study's questions will be published in a future issue of SD Times.

The survey is at <http://www.surveymonkey.com/s.asp?u=34980727015>

This survey is completely confidential. Your name or e-mail address is not being tracked or recorded. You will NOT be contacted by anyone as a result of your participation in this survey. Our use of your answers will be for the tabulation of aggregate results only.

Because we're only sending this survey to a small number of SD Times readers, your participation will make a significant difference. The survey should take fewer than five minutes to complete; if you have any questions about the survey, or experience any technical difficulties, please let us know at surveyfeedback@bzmedia.com

Again, the survey is at
<http://www.surveymonkey.com/s.asp?u=34980727015>

Thank you for your assistance!

Alan Zeichick
Editor-in-Chief, SD Times

SD Times

SOFTWARE DEVELOPMENT

The Industry Newspaper for Software Development Managers

1. 4th Annual Java Study, Page 1

Thank you for participating in our 4th Annual Java Study. Your responses will be kept purely confidential, and will only be used statistically to analyze industry trends in the adoption of Java-related technologies.

Thank you!

Alan Zeichick
Editor-in-Chief
BZ Media's SD Times

**1. Are you, your company, or the companies to whom you consult, using Java for software development?
(Please check one only)**

- Yes, am using Java today
- No, but expect to within the next 6 months
- No, but expect to within 6 to 12 months
- No, do next expect to use Java within the next year
- Don't know

**2. Which editions of Java are currently in use at your company, or do you expect to be in use within the next 12 months?
(Please check all that apply)**

- Java 2 Enterprise Edition (J2EE)
- Java 2 Standard Edition (J2SE)
- Java 2 Micro Edition (J2ME)
- Do not use/plan to use Java
- Don't know

3. Where do you intend to deploy Java applications within the next 12 months? (Please check all that apply)

- On servers
- On desktop/notebook clients
- On wireless/mobile clients
- Within embedded systems
- Do not use or plan to use Java
- Don't know

4. At what state of Java development is your company (or the companies to whom you consult)? (Please check one)

- Have deployed production systems
- Developing production system, but no deployment yet
- Developing pilot projects, but have not begun building production systems
- Studying the technology, but have not even started on pilots
- Do not intend to develop for Java
- Don't know

5. What types of systems are you integrating J2EE applications with? (Please check all that apply)

- Other J2EE/Java applications
- Microsoft .NET applications
- Legacy Windows (i.e., Win32) applications
- Native (non-Java) Linux or Unix applications
- Midrange/Mainframe applications
- CRP or ERP systems
- Service oriented architectures
- EDI-based trading or commerce networks
- E-commerce or e-business systems
- Are not integrating J2EE applications
- Other (please specify)

6. Which Java APIs or other technologies does your company (or the companies to whom you consult) currently use or plan to use within the next 12 months? (Please check all that apply)

- 2D or 3D graphics APIs and libraries
- Enterprise Media Beans
- J2EE Connector Architecture
- J2ME Foundation Profile
- J2ME Wireless Toolkit
- JAIN (Java Advanced Intelligent Network API)
- Java Agent Services
- Java Compiler API
- Java Cryptography Extension
- Java Data Mining API
- Java Location API
- Java Portlet API
- Java Servlets
- Java Web Services Framework
- JavaBeans, EJBs and other components
- JavaCard (smart cards)
- JavaDesk
- Javadoc (documentation from source code)
- JavaServer Faces
- JAX-xxx family and related protocols
- JBI (Java Business Integration)
- JCACHE (Java Temporary Caching API)
- JDBC (Java Database Connectivity)
- JDO (Java Data Objects)
- JESI (JSP Tag Library for Edge Side Includes)
- JFC (Java Foundation Classes), AWT and Swing
- Jini
- JMI (Java Metadata Interface)
- JMS (Java Message Service)

- JMX (Java Management Extensions)
- JNLP (Java Network Launching Protocol)
- JOLAP (Java OLAP Interface)
- JPay (Java Payment API)
- JSP (JavaServer Pages)
- JTA (Java Transaction API)
- JTAPI (Java Telephony API)
- JXQ (Java XQuery API)
- JXTA (peer-to-peer networking)
- Mobile Media API
- Non-Java languages running with the JVM
- OSGi (Open Services Gateway Interface Spec)
- OSS (Operations Support Systems) specs
- POJO (Plain Old Java Objects)
- Real-Time Specification for Java
- RMI (Remote Method Invocation)
- Service Data Objects
- STL (Standard Tag Library)
- WSDP (Web Services Developer Pack)
- WS-I Basic Profile
- Other (please specify)

**7. Which Java application servers are currently in use at your company (or at the companies to whom you consult)?
(Please check all that apply)**

- Apple WebObjects
- BEA WebLogic Application Server
- Borland App Server or Enterprise Server
- IBM WebSphere Application Server
- IONA Orbix or ASP
- JBoss Application Server
- Macromedia JRun

- Novell eXtend
- Oracle 8iAS, 9iAS, 10gAS
- Orion Server
- Sun Java System Application Server (Sun ONE App Server)
- Sybase EAserver
- Don't know
- Other (please specify)

8. Which Java development environments are currently in use at your company (or at the companies to whom you consult)? (Please check all that apply)

- Apple Project Builder or Xcode
- BEA WebLogic Workshop
- Borland JBuilder or Enterprise Studio for Java
- Borland/TogetherSoft's Control Center
- Compuware DevPartner
- Compuware OptimalJ
- Eclipse
- IBM VisualAge for Java
- IBM WebSphere Studio Application Developer
- JetBrains IntelliJ IDEA
- Microsoft Visual J++ or Visual J# .NET
- Oracle JDeveloper
- SlickEdit Visual SlickEdit
- Sun Forte for Java
- Sun NetBeans
- Sun Java Studio
- Sun Java Studio Creator
- Sybase PowerBuilder
- In-house developed IDE
- Don't know
- Other (please specify)

Next >>



The Industry Newspaper for Software Development Managers

2. 4th Annual Java Study, Page 2

**9. To help us benchmark the awareness of vendors in the Java market, which of these companies have you heard of?
(Please check all that apply)**

- Kenetiks
- JBoss
- DataSource
- Actuate
- Fair Isaac
- SAP
- Ektron
- Interactive TKO
- No Magic
- RefactorIT
- SpiritSoft
- Instantiations
- PointBase
- Versata
- Embarcadero
- NetIQ
- Oak Grove Systems
- Quest Software
- Corda
- Open Demand
- Ensemble Systems
- InSession Technologies

- Sybase
- EnerJy
- H & W
- webMethods
- IronGrid
- ILOG
- InferData
- Fiorano
- Inetsoft
- NetManage
- Canoo Engineering
- Northwoods
- Mercury
- Dralasoftware
- IONA
- GreenPoint
- I-Way
- Systinet
- Macromedia
- Librados
- Pantero
- ESRI
- Extentech
- Bowstreet
- Jinfonet
- Acsera
- PolarLake
- SandCherry
- IntelliJ/JetBrains
- WebAppCabaret
- Segue
- Intersperse
- Vintela

- Visual Numerics
- Exadel
- WinMill Software
- Altova
- Compuware
- RadView
- RealObjects
- Tom Sawyer Software
- Popkin
- Tangosol
- preEmptive
- Sonic Software
- ClearNova
- Cape Clear
- Recursion Software
- DataDirect Technologies
- New Atlanta
- Rascal Software
- Web Renderer (JadeLiquid)
- BEA
- Parasoft
- Software FX
- Zion Software
- Codemesh
- Wily Technology
- TeaLeaf Technology
- Sesma
- Software AG
- Zero G
- Borland
- Visual Paradigm
- Prolifics
- WebGain

-  Oracle
-  Agitar Software
-  Report Mill
-  Quadbase
-  ICEsoft Technologies
-  Synaptris

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