

# VisualAge Pacbase



## 2002 Statistics Summary

IBM: [www.ibm.com](http://www.ibm.com)



The NAPUG: [www.NAPUG.com](http://www.NAPUG.com)



The GUEPARD: [www.guepard.asso.fr](http://www.guepard.asso.fr)



e-ASG: [www.e-ASG.com](http://www.e-ASG.com)



January, 21 2003

Dear Pacbase user,

A VisualAge Pacbase 2002 statistics summary document was prepared for a coordination meeting to further discuss the focus of the VisualAge Pacbase development effort as it relates to the Client's strategic Application Development needs and follow up on product announcements made at NAPUG VisualAge Pacbase conference, held the fall 2002 in St. Augustine FL. A focus group including representatives from the NAPUG (North American Pacbase User Group), the GUEPARD (European Pacbase User Group), the IBM Paris Lab and IBM Enterprise Modernization Solutions and IBM business Partners attended this meeting on December 17<sup>th</sup> 2002 in the Research Triangle Park (RTP), IBM largest software development lab located in Raleigh, NC . The focus of this meeting revolved around IBM's VisualAge Pacbase integration in WSED / ECLIPSE enterprise Applications Development tooling, the level of support for Web-Services and XML, the level of support for STRUTS and MVC architecture, the coverage of the full Application Development life cycle (modeling-development-test-deployment), the level of abstraction of architectures and automatic generation of code and other Application Development tools issues.

The attendees to this coordination meeting were:

- Mr. Mike Pachis Chairman of the North American Pacbase User Group (NAPUG) and Mr. Claude Clarisse Chairman of the European Pacbase User Group (GUEPARD) along with selected VisualAge Pacbase Clients representing the Pacbase Clients community.
- Mr. Les Png, IBM's VisualAge and WSED brand manager, Mr. Jim Rhyne, IBM's main WSED architect, Mr. Jean-Francois Levi, IBM's Paris Lab VisualAge Pacbase Product Manager and Mr. Ray Daniel, IBM, WebSphere Tools, Americas Sales Executive
- Mr. Gianfranco Moi, e-ASG President and COO, attending this meeting as an IBM Business Partners representative.

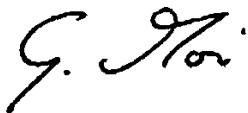
A questionnaire was jointly developed by the NAPUG and the GUEPARD to poll the VisualAge Pacbase Clients base in order to gather additional feedback from Clients who did not attend the 2002 conference. With IBM's and e-ASG's support, a survey using this questionnaire was conducted in North America and in France from mid October through mid December

2002. Clients were contacted through e-mail, telephone and had also the possibility to answer the survey posted on the GUEPARD's web site. Clients who participated in the survey were also requested to provide a copy of the statistics generated by the VisualAge Pacbase "SAVE" procedure that creates standard reports for all types of constructs and their usage in the Pacbase repository. These statistics provide an accurate and standard measure of the Client's repository content that allows for the aggregation of the results to reflect the current Client's community investment in VisualAge Pacbase. A sample "SAVE" statistical report is provided in attachment A

This VisualAge Pacbase 2002 statistics summary report is now being made available to the Pacbase community both in North America and Europe contacting the NAPUG or the GUEPARD via e-mail through their respective web site [www.NAPUG.com](http://www.NAPUG.com) or [www.guepard.asso.fr](http://www.guepard.asso.fr) indicating VisualAge Pacbase 2002 statistics summary reportrequest in the subject line.

We hope you will find this report informative when you compare it to your own usage of the product. We welcome your feedback and questions on this summary report as we would like to improve it for 2003.

Sincerely,



Gianfranco Moi  
NAPUG Webmaster

## Survey questionnaire

- 1) company name and Industry: \_\_\_\_\_
- 2) results of the Pacbase save procedure for the library \*\*\* that provides the number of Pacbase entities of each type for the entire repository as well as some statistical information regarding the usage of Cross references, archived sessions etc. You can e-mail the entire filed zipped file or only fax to us the \*\*\* library pages at (954) 301-3944. If you have any questions regarding the VisualAge Pacbase Save procedure and how to obtain these statistics please contact the Pacbase hot-line at (800) 722-1886.
- 3) The approximate number of VisualAge Pacbase developers that are using the product in your organization:
  - a. regularly: \_\_\_\_\_
  - b. sporadically: \_\_\_\_\_
- 4) A response to the following question (select all that applies):
  - a. Pacbase is no longer used
  - b. Pacbase is used for maintenance only
  - c. Pacbase is used for traditional batch and on-line programs development
  - d. Pacabase is used for web-enabling legacy systems
  - e. Pacbase is used for e-Business development
  - f. Other: \_\_\_\_\_
- 5) What mission critical applications are currently maintained with Pacbase in your organization:
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
  - c. \_\_\_\_\_
  - d. \_\_\_\_\_
  - e. \_\_\_\_\_
  - f. \_\_\_\_\_
- 6) Where do you think IBM should focus its development efforts on Pacbase, please rank from 1 to 7:
  - a. Completing the version 3.5 of the Workstation
  - b. Developing a web-services generator for e-Business
  - c. Rewriting the workstation to integrate with ECLIPSE
  - d. Development of XML based import export capabilities for the repository
  - e. LINUX version of the Pacbase development environment
  - f. Make the Pacbase repository compatible with Eclipse
  - g. Other: \_\_\_\_\_

## Survey results summary

The following summarizes the data collected in the survey:

Items	Sample 10%	Ratios	Expanded 400
<b>Client</b>	<b>41</b>	<b>1</b>	<b>400</b>
- Finance	17	41%	166
- Public Administration	9	22%	88
- Insurance	6	15%	59
- Distribution	3	7%	29
- Software Development	3	7%	29
- Manufacturing	3	7%	29
<b>Number of users</b>	<b>3996</b>	<b>97</b>	<b>38985</b>
- regularly	2026	49	19766
- sporadically	1970	48	19220
<b>Usage</b>			
- no longer used	3	7%	29
- used for maintenance only	3	7%	29
- used for traditional batch and online development	33	80%	322
- used for web enablement of legacy systems	9	22%	88
- used for e-Business development	7	17%	68
- other	6	15%	59
<b>Mission Critical applications in VisualAge Pacbase</b>	109	3	1063
-On-line Pgms / Screens	45,330.00	1,106	442,244
-Batch Pgms	180,704.00	4,407	1,762,966
-Reports	19,822.00	483	193,385
-Data elements	547,091.00	13,344	5,337,473
-Segments	210,589.00	5,136	2,054,527
-Text	138,869.00	3,387	1,354,820
-Index / data ratio	3.43		
<b>IBM priorities to focus the VisualAge Pacbase development effort on</b>			
-completing version 3.5 of the workstation	1.80	1	
-developing a web services generator for e-business	3.91	4	
-rewriting the workstation to integrate with ECLIPSE	4.57	5	
-developing XML import / export capabilities for the repository	3.27	2	
-LINUX version of the Pacbase development environment	5.97	6	
-make the Pacbase repository compatible with ECLIPSE	3.43	3	

## **Survey results summary analysis and comments**

In order to interpret results of this survey, additional information regarding the population surveyed, the survey process along with the assumptions used to summarize the results are provided below:

### **Clients:**

The Clients surveyed were a subset of VisualAge Pacbase licensees that are or have been in Contact with the NAPUG or the GUEPARD in 2002. After validating with IBM regarding the number of licensees, approximately 10% of the Clients have responded to the survey.

### **Number of users:**

The number of users is broken up in "regular" users, usually VisualAge Pacbase developers and a variety of "sporadic" users such as IT managers, AD architects, project managers, business analysts, designers, testers, technical writers who access the VisualAge Pacbase sporadically. The number of users per site is computed in dividing the sample over the sample population. The expanded number of users is also computed using the demographics of the sample assuming a total installed base of 400 Clients consistent with our assumption of 10% response ratio. However, It is noteworthy to mention that the number of users does not include third party services company that are providing services to VisualAge Pacbase Clients and in some cases may represent the majority of the users.

### **Usage:**

The usage question allowed multiple responses with the first two ones mutually exclusive from other responses. 80% of the Clients use VisualAge Pacbase for traditional on-line and batch applications and only 20% use it for e-Business applications.

### **Mission critical applications in VisualAge Pacbase:**

The average number of mission critical applications is 3 per Client. This average number is most probably understated since several Clients who have responded ALL APPLICATIONS without detailing have only been accounted for 1 application.

The counts of programs, etc. were retrieved from the figures provided by the save statistics. The averages are computed with the Clients that provided information as opposed to all Clients in the sample in order to provide a more realistic profile of the average "active" Client's application profile.

The index / data ratio that provides a measure of the level of reuse of the constructs in the repository is remarkably constant around the its average value of 3.42. This number is an aggregate average of number of cross references for all types of entities in the repository and is a measurement of the level of re-use. It value does not have an absolute significance but it's relative value compared when comparing this number with your own index / data ratio automatically computed by the SAVE statistics (see example below) provides a good relative indicator of your relative efficiency in leveraging the power of the repository.

### **IBM priorities to focus the Pacbase development effort on**

Make the VisualAge Pacbase repository compatible with ECLIPSE and allow the import and export of the repository in XML format, were the two most important recommendations excluding the pending completion of the release 3.5. In many instances, Clients stressed the importance of having a single open repository allowing to store VisualAge Pacbase information along with information that can be manipulated with third party tools such as Rational in a standard XML format and provide "fine grain" management of the content with exhaustive detailed impact analysis, exhaustive change propagation, versioning, lock management, security management etc. Developing web services generators for e-Business was also highly recommended. The rewrite of the VisualAge Pacbase workstation to integrate with ECLIPSE and the availability of VisualAge Pacbase as a development environment under LINUX were ranked at a lower level of priority.

**Attachment A: SAVE statistics example**

VA Pac 2.5 V15

-12/01/2002-

```

*****
*
*   STATISTICAL DESCRIPTION   *
*
*   OF THE DATA BASE CLIE   *
*
*   CURRENT SESSION   :   5052 *
*
*****

```

NUMBER OF LIBRARIES IN THE DATA BASE: 58

## DATA FILE

```

TOTAL NUMBER OF RECORDS .....: 3 208 498

TECHNOLOGICAL RECORDS .....:          1
GAPS .....:          1 ( 0% OF REC.)
DATA RECORDS .....: 3 208 497 (100% OF REC.)

ACTIVATED DATA IN CURRENT SESSION ...: 764 818 ( 24% OF DATA)
DATA FROM HISTORICAL ACCOUNTS .....: 2 081 174

```

## INDEX FILE

```

TOTAL NUMBER OF INDEX .....: 3 610 467
AVERAGE NUMBER OF INDEXES PER DATA ..:          3,20

```

LIBRARY DISPATCHING  
\*\*\*\*\*

THE STATISTICAL DESCRIPTION OF THE INTER-LIBRARY ('<' VIEW) IS FOUND IN THE FOLLOWING LIST. FOLLOWING ARE THE LIBRARIES' DESCRIPTIONS ('U' AND 'A' VIEW). FOR EACH ENTITY OR ENTITY LINE, THE TOTAL NUMBER OF DATA ACTIVE IN THE CURRENT SESSION IS INDICATED.

VA Pac 2.5 V15

LIBRARY : \*\*\*

SESSION : 5052

PAGE : 1

```

-----
I  I      I      I      I
I 1 I      I      - LOGICAL VIEW U -      I      - LOGICAL VIEW < -      I
I  I      I      I      I
-----
I NUMBER OF KEY WORDS      I      87      I      133 929      I
-----
I  ENTITY      :      I      :AVERAGE:      I      :AVERAGE:      I
I      : LINE I      TOTAL      : / : % LIBI      TOTAL      : / : % LIBI
I NAME      CODE:      I      : ENTITY:      I      : ENTITY:      I
-----
I      :      I      :      :      I      :      :      I
I LIBRARY      * :      I      :      :      I      58 :      : 0,01I
I      : G      I      :      :      I      :      :      I
I      :      I      :      :      I      :      :      I
I TEXT      T :      I      :      :      I      1 144 :      : 0,15I
I      : G      I      :      :      I      168 : 0,1 : 0,02I
I      : D      I      :      :      I      169 656 : 148,3 : 22,32I
I      :      I      :      :      I      :      :      I
I U. MANUAL      U :      I      :      :      I      :      :      I
I      : G      I      :      :      I      :      :      I
I      : D      I      :      :      I      :      :      I
I      :      I      :      :      I      :      :      I
I VOLUME      V :      I      :      :      I      177 :      : 0,02I
I      : G      I      :      :      I      37 : 0,2 : 0,00I
I      : D      I      :      :      I      8 967 : 50,7 : 1,18I
I      :      I      :      :      I      :      :      I
I DATA ELEMENT E :      I      :      :      I      6 615 :      : 0,87I
I      : G      I      :      :      I      192 : 0,0 : 0,03I
I      : D      I      :      :      I      51 510 : 7,8 : 6,78I
I      :      I      :      :      I      :      :      I
I DATA      D :      I      :      :      I      315 :      : 0,04I
I STRUCTURE      : G      I      :      :      I      284 : 0,9 : 0,04I
I      :      I      :      :      I      :      :      I
I SEGMENT      S :      I      :      :      I      2 628 :      : 0,35I
I      : G      I      :      :      I      3 438 : 1,3 : 0,45I
I      : SS      I      :      :      I      :      :      I
I      : CE      I      :      :      I      30 751 : 11,7 : 4,04I
I      :      I      :      :      I      :      :      I
I P I A      I :      I      :      :      I      39 :      : 0,01I
I      : G      I      :      :      I      :      :      I
I      : D      I      :      :      I      350 : 9,0 : 0,05I
I      :      I      :      :      I      :      :      I
I DATA BASE      B :      I      :      :      I      165 :      : 0,02I
I BLOCK      : G      I      :      :      I      4 759 : 28,8 : 0,63I
I      : DH      I      :      :      I      241 : 1,5 : 0,03I
I      : DC      I      :      :      I      232 : 1,4 : 0,03I
I      : DR      I      :      :      I      439 : 2,7 : 0,06I
I      :      I      :      :      I      :      :      I
I SCREEN      O :      I      :      :      I      1 006 :      : 0,13I
I      : G      I      :      :      I      2 557 : 2,5 : 0,34I
I      : CE      I      :      :      I      7 247 : 7,2 : 0,95I
I      : CS      I      :      :      I      4 362 : 4,3 : 0,57I
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VA Pac 2.5 V15

LIBRARY : \*\*\*

SESSION : 5052

PAGE : 2

```

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I  I          I          I          I
I 2 I          I          - LOGICAL VIEW U - I          - LOGICAL VIEW A - I
I  I          I          I          I
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I  ENTITY      : I          :AVERAGE: I          :AVERAGE: I
I          : LINE I  TOTAL  : / : % LIBI  TOTAL  : / : % LIBI
I NAME      CODE: I          : ENTITY: I          : ENTITY: I
-----
I SCREEN      O : CP  I          :          : I          11 878 : 11,8 : 1,56I
I          : B  I          :          : I          188 : 0,2 : 0,02I
I          : W  I          :          : I          5 643 : 5,6 : 0,74I
I          : P  I          :          : I          66 524 : 66,1 : 8,75I
I          :   I          :          : I          :          :          : I
I REPORT      R :   I          :          : I          136 :          : 0,02I
I          : G  I          :          : I          70 : 0,5 : 0,01I
I          : L  I          :          : I          5 677 : 41,7 : 0,75I
I          : D  I          :          : I          2 590 : 19,0 : 0,34I
I          : CE I          :          : I          3 241 : 23,8 : 0,43I
I          :   I          :          : I          :          :          : I
I PROGRAM     P :   I          :          : I          4 040 :          : 0,53I
I          : G  I          :          : I          15 604 : 3,9 : 2,05I
I          : CD I          :          : I          2 738 : 0,7 : 0,36I
I          : CP I          :          : I          19 945 : 4,9 : 2,62I
I          : B  I          :          : I          691 : 0,2 : 0,09I
I          : W  I          :          : I          25 644 : 6,3 : 3,37I
I          : P  I          :          : I          88 389 : 21,9 : 11,63I
I          : 8  I          :          : I          :          :          : I
I          : 9  I          :          : I          78 279 : 19,4 : 10,30I
I          : S  I          :          : I          :          :          : I
I          :   I          :          : I          :          :          : I
I DESIGN AID  M :   I          :          : I          433 :          : 0,06I
I          : G  I          :          : I          1 242 : 2,9 : 0,16I
I          : CM I          :          : I          56 : 0,1 : 0,01I
I          : CE I          :          : I          1 631 : 3,8 : 0,21I
I          :   I          :          : I          :          :          : I
I USER ENTITY F :   I          8 :          : 7,08I          51 :          : 0,01I
I          : G  I          :          : I          15 : 0,3 : 0,00I
I          : D  I          84 : 10,5 : 74,34I          515 : 10,1 : 0,07I
I          :   I          :          : I          :          :          : I
I RELATIONSHIP Q :   I          21 :          : 18,58I          340 :          : 0,04I
I          : G  I          :          : I          :          :          : I
I          :   I          :          : I          :          :          : I
I U.E. ITEM   $ :   I          :          : I          2 761 :          : 0,36I
I          : G  I          :          : I          466 : 0,2 : 0,06I
I          : D  I          :          : I          123 735 : 44,8 : 16,28I
I          :   I          :          : I          :          :          : I
I LOCK       L :   I          :          : I          389 :          : 0,05I
I          :   I          :          : I          :          :          : I
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I          I          :          : I          :          : I
I  TOTAL      I          113 :          : I          760 248 :          : I
I          I          :          : I          :          : I
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