

Point-and-Click Database Administration with CA IDMS™ Visual DBA

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Abstract

- Attend this session to see how you can use a single, user-friendly interface to manage and monitor all of your CA IDMS™ Central Versions (CVs). Learn how to exploit its GUI capabilities to avoid coding JCL and memorizing syntax. New and veteran DBAs can benefit from the productivity features available in CA IDMS™ Visual DBA.



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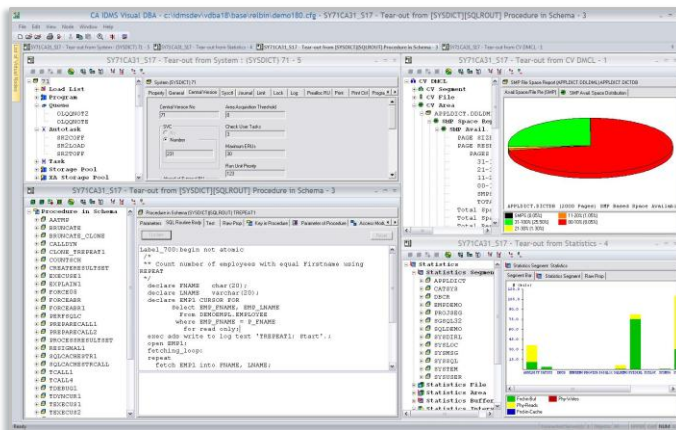
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Agenda

- What is CA IDMS Visual DBA?
- What can I do with it?
- Changes supporting CA IDMS Version 18 features

CA IDMS Visual DBA What is it?

CA IDMS Visual DBA is a GUI-based tool that makes **administering, monitoring, learning and using** CA IDMS easy!



CA IDMS Visual DBA What can I do with it?

- Manage database, system and security definitions
- Monitor and adjust CV activity
- Access concurrently multiple CVs (IDMS r17 and Version 18)
- Execute online utilities from GUI front-end
- Search CV log
- Manage IDD modules
- Submit scripts
- Create and execute SQL statements
- Develop SQL routines

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CA IDMS Visual DBA Why would I want to use it?

Shortens learning curve for next generation Mainframe workers

- Explorer for dictionary and runtime
- No syntax
- No JCL
- Online help
- Standard Windows Graphical User Interface

Provides dashboard to manage, monitor, drag&drop

- Multiple systems
- Multiple CA IDMS releases

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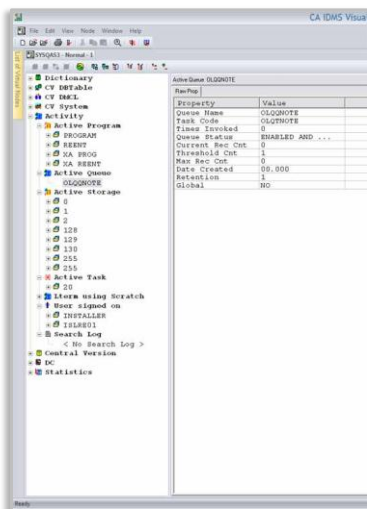
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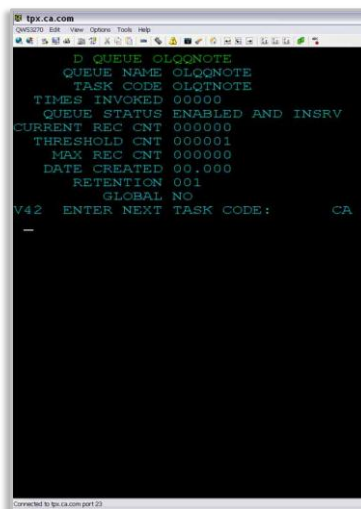


CA IDMS Visual DBA

Why would I want to use it?



Visual DBA



Mainframe

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Installation

PC Side

- Certified Windows platforms
 - XP, Vista and Windows 7
 - Windows Server 2008
- Runs also on
 - Windows Server 2003
 - Terminal Server environment in Windows Server 2008

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Installation Mainframe

- CA IDMS backend
 - R17, Version 18 and Version 18.5
 - No licenses required for CA IDMS SQL Option or Server
- Install using CA IDMS Visual DBA
 - Installing user profile required
 - Profile rule contains:
 Cmd Console SQL/SYSTEM(U)
- Install using IDMSBCF

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Installation Compatibility

- Visual DBA r16&r17
 - Run against CA IDMS Version 18 and 18.5, reinstall MF component
- CA IDMS™ Server
 - CA IDMS Server r16.n & r17 concurrently
- CA IDMS Visual DBA Version 18 co-exists with any release of Visual DBA on Windows and Mainframe platforms

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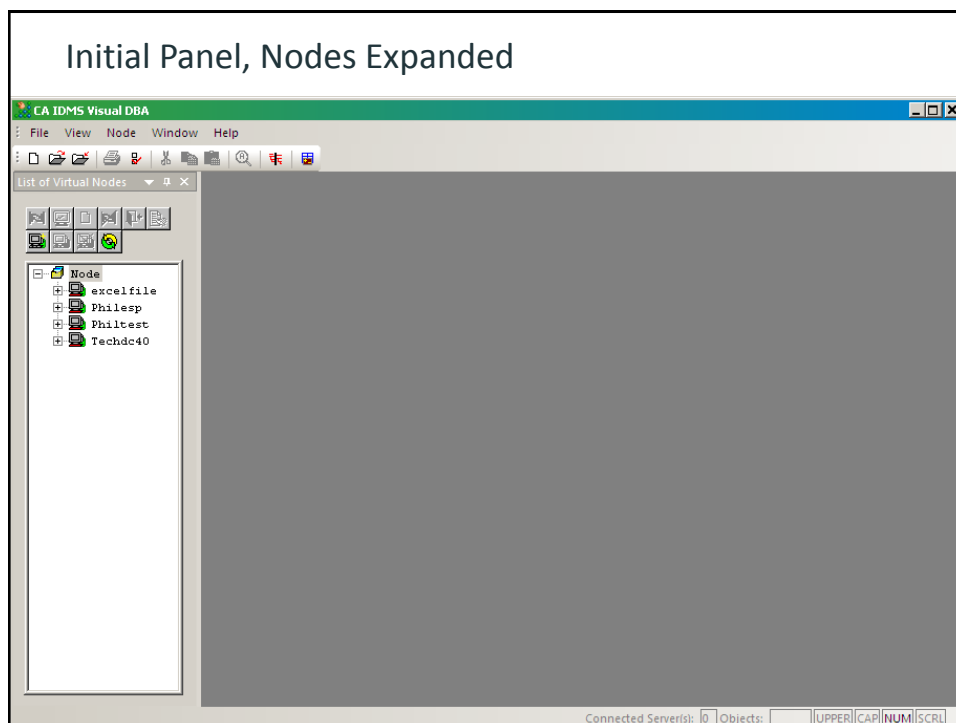


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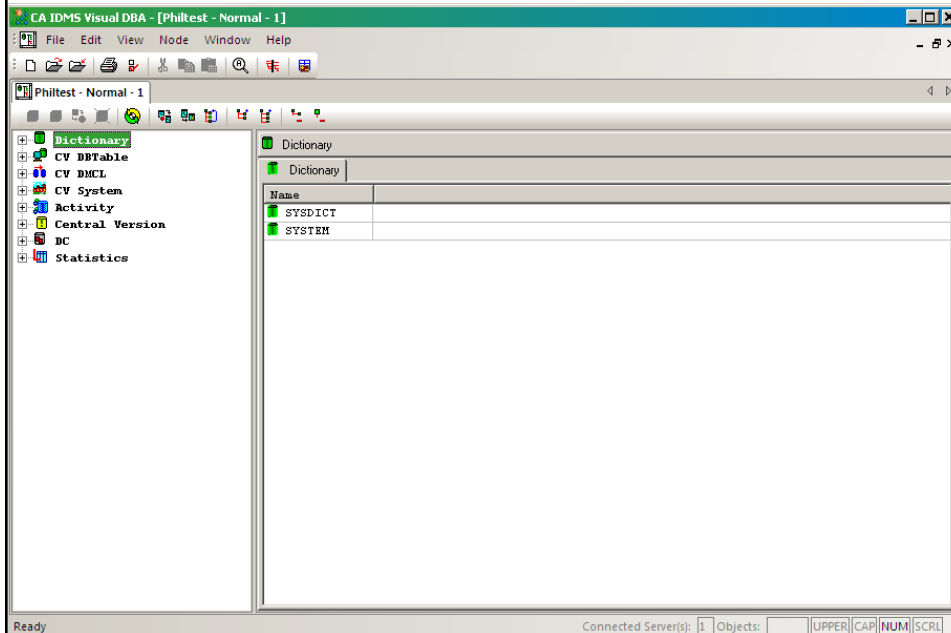
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What Can I Do With It?



Signed on, Dictionaries Displayed



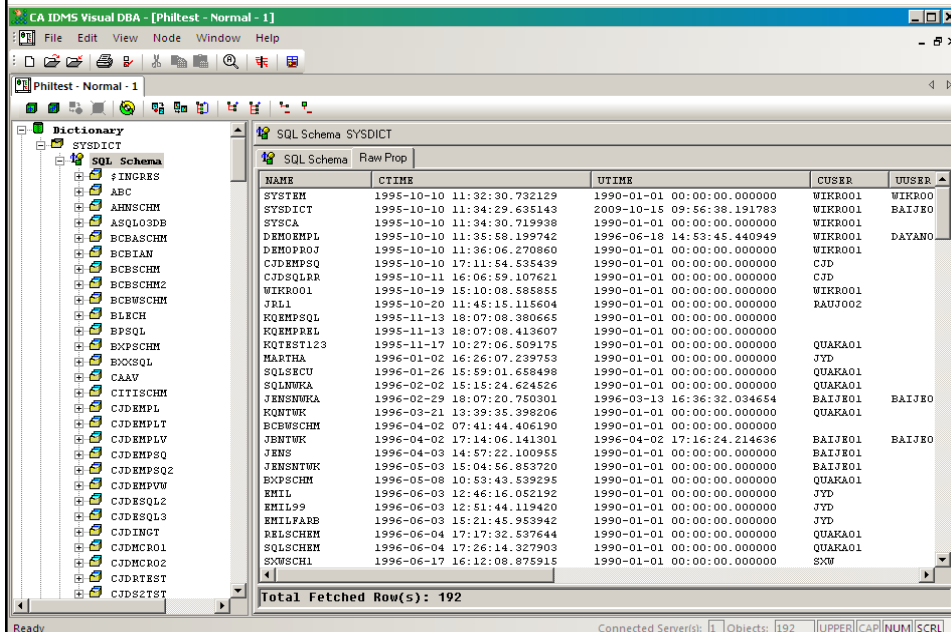
CA IDMS Visual DBA - [Philtest - Normal - 1]

Dictionary

Name
SYSDICT
SYSTEM

Ready Connected Server(s): 1 Objects: UPPER|CAP|NUM|SCRL

Dictionary Objects: SQL Schemas



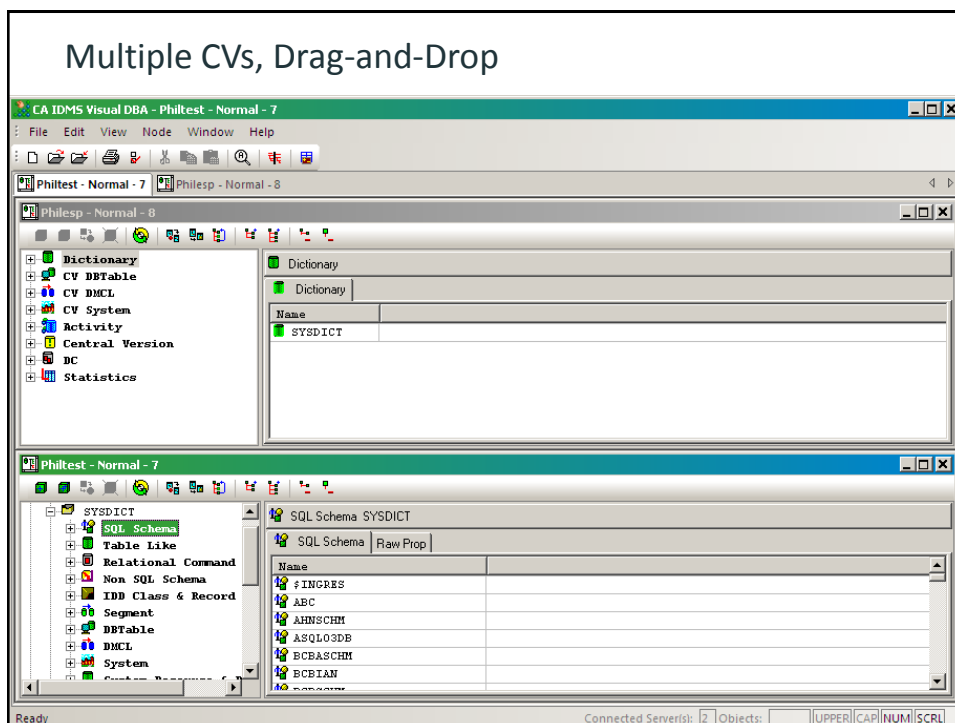
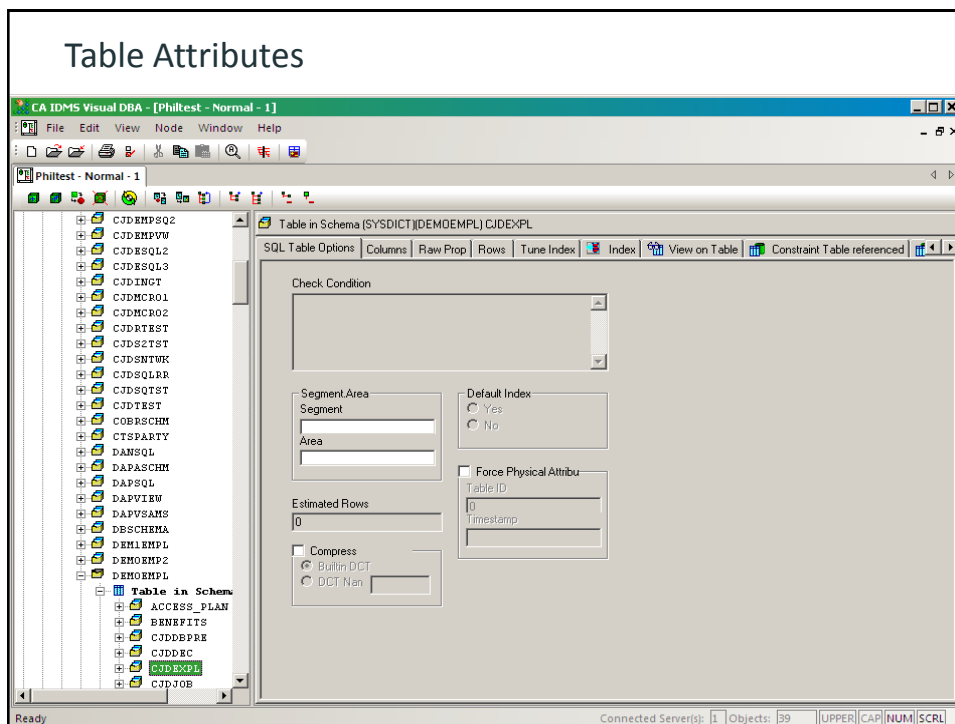
CA IDMS Visual DBA - [Philtest - Normal - 1]

SQL Schema SYSDICT

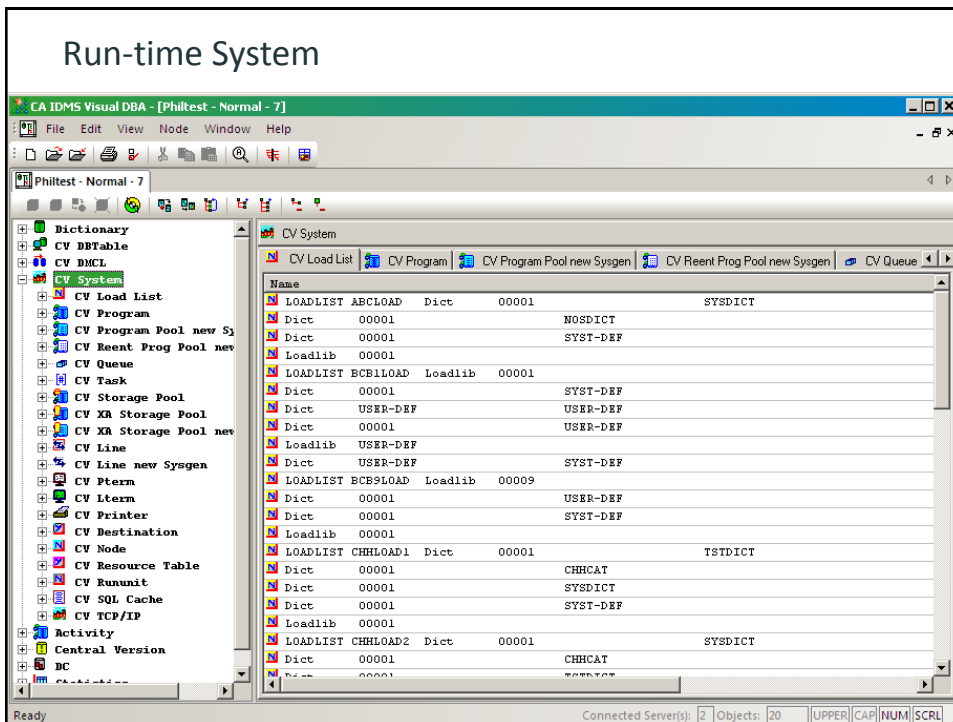
NAME	CTIME	UTIME	CUSER	USER
SYSTEM	1995-10-10 11:32:30.732129	1990-01-01 00:00:00.000000	WIKR001	WIKR00
SYSDICT	1995-10-10 11:34:29.635143	2009-10-15 09:56:38.191783	WIKR001	BAIJEO
SYSCA	1995-10-10 11:34:30.719938	1990-01-01 00:00:00.000000	WIKR001	
DEMOEMPL	1995-10-10 11:35:58.199742	1996-06-18 14:53:45.440949	WIKR001	DAYANO
DEMOPROJ	1995-10-10 11:36:06.270860	1990-01-01 00:00:00.000000	WIKR001	
CJDEHPSQ	1995-10-10 17:11:54.535439	1990-01-01 00:00:00.000000	CJD	
CJDSQLER	1995-10-11 16:06:59.107621	1990-01-01 00:00:00.000000	CJD	
WIKR001	1995-10-19 15:10:08.585855	1990-01-01 00:00:00.000000	WIKR001	
JRL1	1995-10-20 11:45:15.115604	1990-01-01 00:00:00.000000	RAUJ002	
RQEMPSQL	1995-11-13 18:07:08.380665	1990-01-01 00:00:00.000000		
RQEMPREL	1995-11-13 18:07:08.413607	1990-01-01 00:00:00.000000		
RQTEST123	1995-11-17 10:27:06.509175	1990-01-01 00:00:00.000000	QUAKA01	
MARTHA	1996-01-02 16:26:07.239753	1990-01-01 00:00:00.000000	JTD	
SQLSECU	1996-01-26 15:59:01.658498	1990-01-01 00:00:00.000000	QUAKA01	
SQLNWKA	1996-02-02 15:15:24.624526	1990-01-01 00:00:00.000000	QUAKA01	
JENSNNKA	1996-02-29 18:07:20.750301	1996-03-13 16:36:32.034654	BAIJEO1	BAIJEO
RQNTWK	1996-03-21 13:39:35.398206	1990-01-01 00:00:00.000000	QUAKA01	
BCBWSCHM	1996-04-02 07:41:44.406190	1990-01-01 00:00:00.000000		
JENTWK	1996-04-02 17:14:06.141301	1996-04-02 17:16:24.214636	BAIJEO1	BAIJEO
JENS	1996-04-03 14:57:22.100955	1990-01-01 00:00:00.000000	BAIJEO1	
JENSNTWK	1996-05-03 15:04:56.853720	1990-01-01 00:00:00.000000	BAIJEO1	
BCPSCNM	1996-05-08 10:53:43.539295	1990-01-01 00:00:00.000000	QUAKA01	
EMIL	1996-06-03 12:46:16.052192	1990-01-01 00:00:00.000000	JYD	
EMIL99	1996-06-03 12:51:44.119420	1990-01-01 00:00:00.000000	JYD	
EMILFARE	1996-06-03 15:21:45.953942	1990-01-01 00:00:00.000000	JYD	
RELSCHM	1996-06-04 17:17:32.537644	1990-01-01 00:00:00.000000	QUAKA01	
SQLSCHM	1996-06-04 17:26:14.327903	1990-01-01 00:00:00.000000	QUAKA01	
SXWSCH1	1996-06-17 16:12:08.875915	1990-01-01 00:00:00.000000	SXW	

Total Fetched Row(s): 192

Ready Connected Server(s): 1 Objects: 192 UPPER|CAP|NUM|SCRL



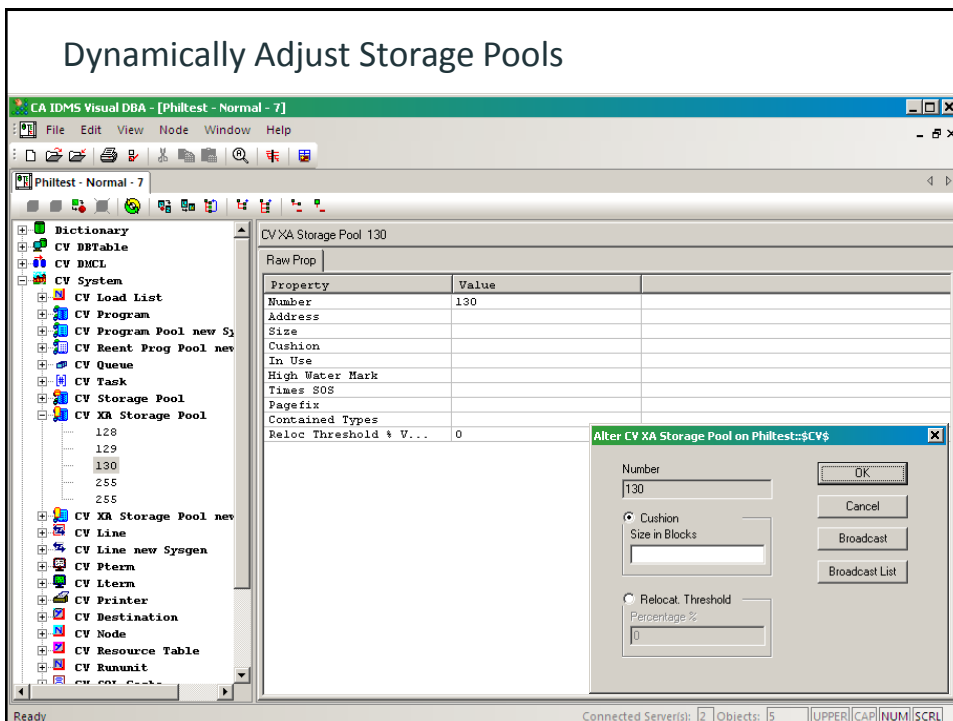
Run-time System



The screenshot shows the CA IDMS Visual DBA interface. The left pane displays a tree view of the dictionary structure, with 'CV System' expanded. The right pane shows a list of CV System objects, including 'CV Load List', 'CV Program', 'CV Program Pool new Sysgen', 'CV Reent Prog Pool new Sysgen', and 'CV Queue'. The 'CV Load List' is selected, showing a table of load list entries.

Name	Dict	Dict	Dict	Dict
LOADLIST ABCLOAD	Dict	00001		SYSDICT
Dict	00001		WOSDICT	
Dict	00001		SYST-DEF	
Loadlib	00001			
LOADLIST BCB1LOAD	Loadlib	00001		
Dict	00001		SYST-DEF	
Dict	USER-DEF		USER-DEF	
Dict	00001		USER-DEF	
Loadlib	USER-DEF			
Dict	USER-DEF		SYST-DEF	
LOADLIST BCB9LOAD	Loadlib	00009		
Dict	00001		USER-DEF	
Dict	00001		SYST-DEF	
Loadlib	00001			
LOADLIST CHHLOAD1	Dict	00001		TSTDICT
Dict	00001		CHHCAT	
Dict	00001		SYSDICT	
Dict	00001		SYST-DEF	
Loadlib	00001			
LOADLIST CHHLOAD2	Dict	00001		SYSDICT
Dict	00001		CHHCAT	
Dict	00001		SYST-DEF	
Loadlib	00001			

Dynamically Adjust Storage Pools



The screenshot shows the CA IDMS Visual DBA interface. The left pane displays a tree view of the dictionary structure, with 'CV XA Storage Pool' expanded. The right pane shows the 'CV XA Storage Pool 130' properties. The 'Alter CV XA Storage Pool on Philtest::\$CV\$' dialog is open, showing the 'Number' field set to 130 and the 'Reloc. Threshold' field set to 0.

Property	Value
Number	130
Address	
Size	
Cushion	
In Use	
High Water Mark	
Times SOS	
Pagefix	
Contained Types	
Reloc Threshold %	0

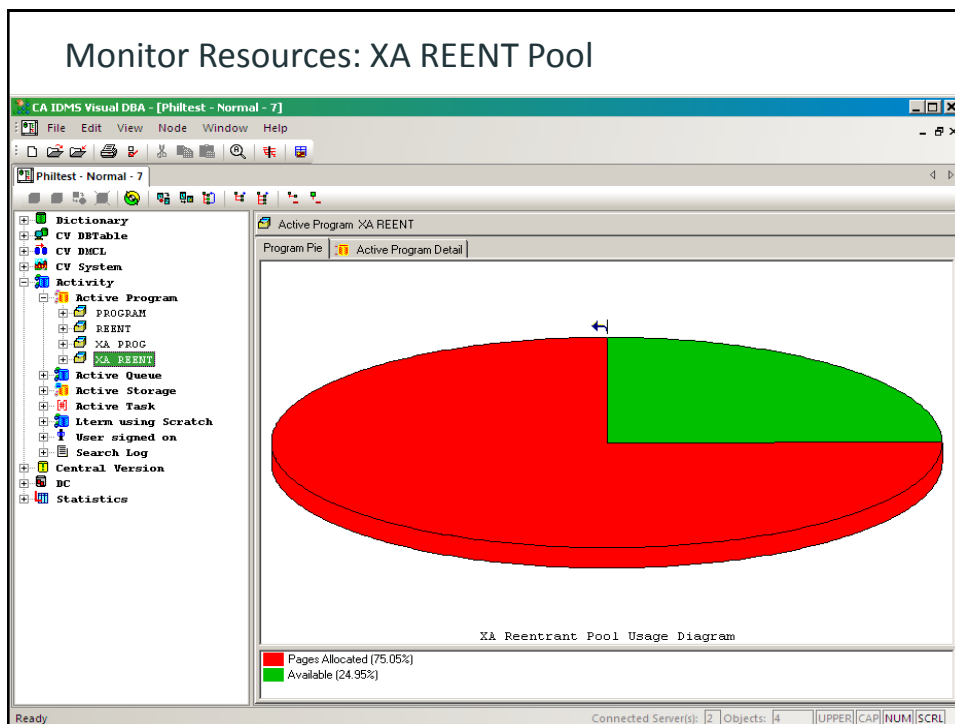
Making Dynamic Change Permanent

The screenshot shows the CA IDMS Visual DBA interface with the 'Philttest - Normal - 7' database selected. The 'XA Storage Pool (SYSTEM)(1800) Pool 130' is highlighted in the left pane. The 'Property' tab is active, showing fields for Name (180), Size (2000), Cushion Size (200), Relocatable Threshold (No), and Pages Fixed (No). An 'Alter Xa Storage Pool on Philttest::SYSTEM(1800)' dialog box is open, allowing modification of these properties. The 'Types Contained' section is also visible, with 'Shared' and 'Shared Kept' checked.

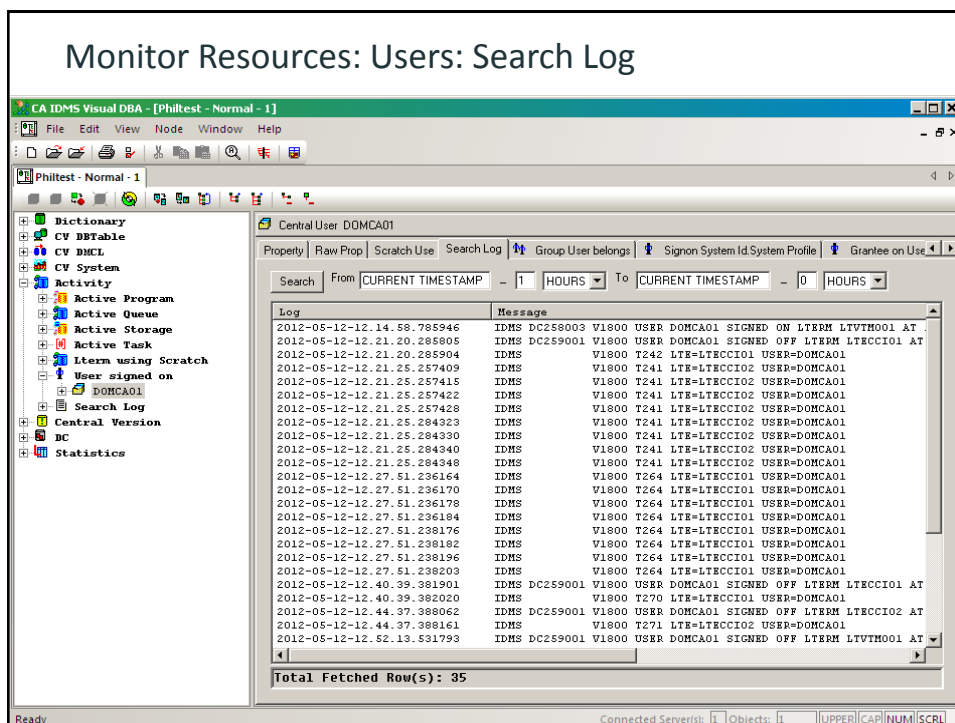
Verify HPSP Implementation

The screenshot shows the CA IDMS Visual DBA interface with the 'Philttest - Normal - 1' database selected. The 'CV Storage Pool' is highlighted in the left pane. The 'CV Storage Pool CV System' table is displayed, showing details for various storage pools. The table includes columns for POOL, ADDRESS, SIZE, CUSHION, INUSE, HWM, TIMES, PFX, CONTAINS, and SEQ. The data shows several storage pools with their respective addresses, sizes, and usage statistics. A message at the bottom indicates 'High Performance Storage Protect Option Enabled'.

POOL	ADDRESS	SIZE	CUSHION	INUSE	HWM	TIMES	PFX	CONTAINS	SEQ
0	00060000	1316K	100K	80K	104K		NO	SY,TR,DB	
1	001A9000	1000K	100K	16K	92K		NO	SH,SK,US,UK	
128	3DA0A000	6000K	600K	36K	456K		NO	US,UK	
129	3B086000	6000K	600K	268K	436K		NO	TR,DB	
130	3B662000	2000K	200K	96K	96K		NO	SH,SK	
255	3B856000	6000K	OK	1156K	1300K		NO	SY	
255	3A60B000	2896K	OK	2896K	2896K		NO	SY	



Monitor Resources: Users: Search Log



CA IDMS Visual DBA - [Philttest - Normal - 1]

Central User DOMCA01

Property | Raw Prop | Scratch Use | Search Log | Group User belongs | Signon System Id System Profile | Grantee on Use

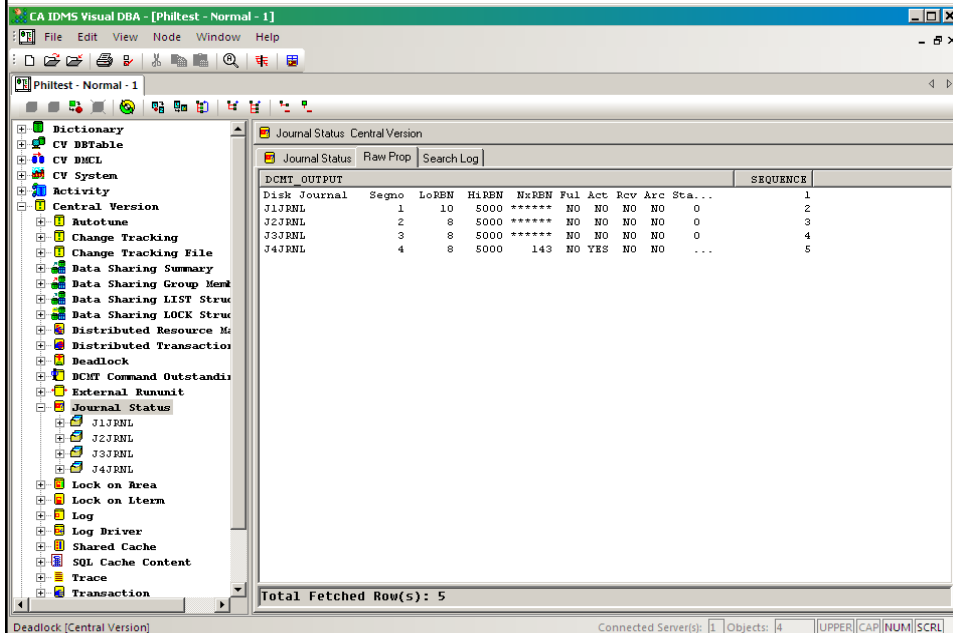
Search From CURRENT TIMESTAMP - 1 HOURS To CURRENT TIMESTAMP - 0 HOURS

Log	Message
2012-05-12-12.14.58.785946	IDMS DC258003 V1800 USER DOMCA01 SIGNED ON LTERM LTVIM001 AT
2012-05-12-12.21.20.285805	IDMS DC259001 V1800 USER DOMCA01 SIGNED OFF LTERM LTRCCIO1 AT
2012-05-12-12.21.20.285904	IDMS V1800 T242 LTR=LTRCCIO1 USER=DOMCA01
2012-05-12-12.21.25.257409	IDMS V1800 T241 LTR=LTRCCIO2 USER=DOMCA01
2012-05-12-12.21.25.257415	IDMS V1800 T241 LTR=LTRCCIO2 USER=DOMCA01
2012-05-12-12.21.25.257422	IDMS V1800 T241 LTR=LTRCCIO2 USER=DOMCA01
2012-05-12-12.21.25.257428	IDMS V1800 T241 LTR=LTRCCIO2 USER=DOMCA01
2012-05-12-12.21.25.284323	IDMS V1800 T241 LTR=LTRCCIO2 USER=DOMCA01
2012-05-12-12.21.25.284330	IDMS V1800 T241 LTR=LTRCCIO2 USER=DOMCA01
2012-05-12-12.21.25.284340	IDMS V1800 T241 LTR=LTRCCIO2 USER=DOMCA01
2012-05-12-12.21.25.284348	IDMS V1800 T241 LTR=LTRCCIO2 USER=DOMCA01
2012-05-12-12.27.51.236164	IDMS V1800 T264 LTR=LTRCCIO1 USER=DOMCA01
2012-05-12-12.27.51.236170	IDMS V1800 T264 LTR=LTRCCIO1 USER=DOMCA01
2012-05-12-12.27.51.236178	IDMS V1800 T264 LTR=LTRCCIO1 USER=DOMCA01
2012-05-12-12.27.51.236184	IDMS V1800 T264 LTR=LTRCCIO1 USER=DOMCA01
2012-05-12-12.27.51.238176	IDMS V1800 T264 LTR=LTRCCIO1 USER=DOMCA01
2012-05-12-12.27.51.238182	IDMS V1800 T264 LTR=LTRCCIO1 USER=DOMCA01
2012-05-12-12.27.51.238196	IDMS V1800 T264 LTR=LTRCCIO1 USER=DOMCA01
2012-05-12-12.27.51.238203	IDMS V1800 T264 LTR=LTRCCIO1 USER=DOMCA01
2012-05-12-12.40.39.381901	IDMS DC259001 V1800 USER DOMCA01 SIGNED OFF LTERM LTRCCIO1 AT
2012-05-12-12.40.39.382020	IDMS V1800 T270 LTR=LTRCCIO1 USER=DOMCA01
2012-05-12-12.44.37.388062	IDMS DC259001 V1800 USER DOMCA01 SIGNED OFF LTERM LTRCCIO2 AT
2012-05-12-12.44.37.388161	IDMS V1800 T271 LTR=LTRCCIO2 USER=DOMCA01
2012-05-12-12.52.13.531793	IDMS DC259001 V1800 USER DOMCA01 SIGNED OFF LTERM LTVIM001 AT

Total Fetched Row(s): 35

Ready Connected Server(s): 1 Objects: 1 UPPERCAPNUMSCRL

Monitor Resources: Journal Status



CA IDMS Visual DBA - [Philttest - Normal - 1]

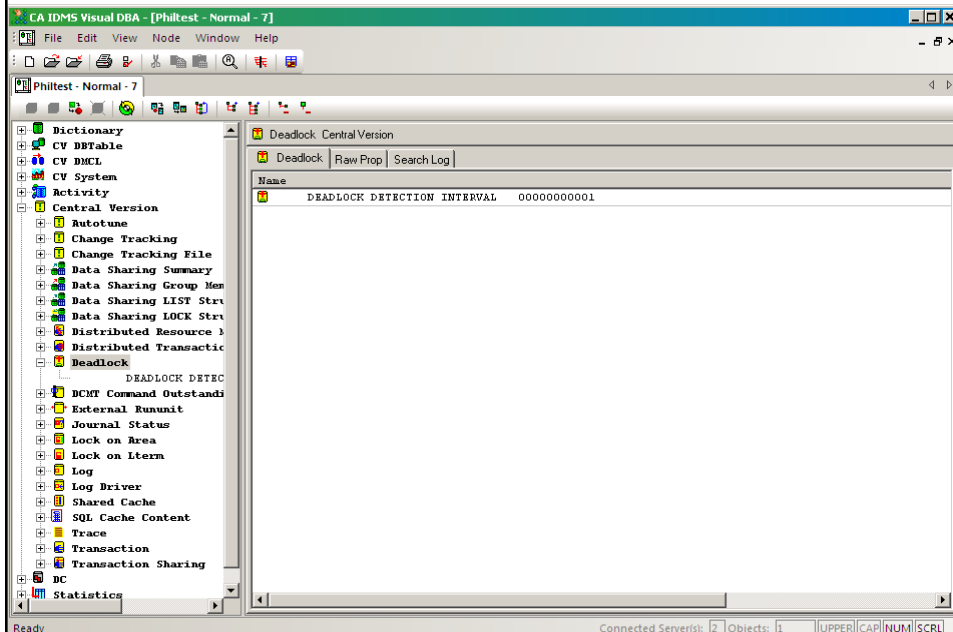
Journal Status: Central Version

DCMT OUTPUT											SEQUENCE
Disk Journal	Segno	LoREN	HiREN	NxREN	Ful	Act	Rev	Arc	Sta...		
J1JREN	1	10	5000	*****	NO	NO	NO	NO	0	1	
J2JREN	2	8	5000	*****	NO	NO	NO	NO	0	2	
J3JREN	3	8	5000	*****	NO	NO	NO	NO	0	3	
J4JREN	4	8	5000	143	NO	YES	NO	NO	...	4	
										5	

Total Fetched Row(s): 5

Deadlock [Central Version] Connected Server(s): 1 Objects: 4 UPPER|CAP|NUM|SCRL

Monitor Resources: Deadlocks



CA IDMS Visual DBA - [Philttest - Normal - 7]

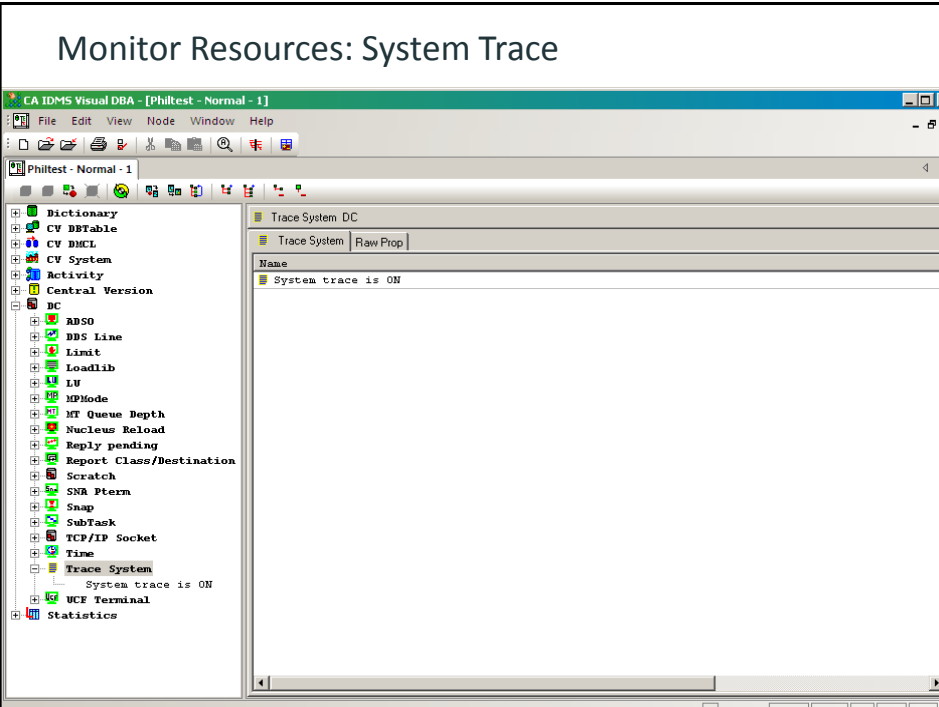
Deadlock: Central Version

Name
DEADLOCK DETECTION INTERVAL 000000000001

DEADLOCK DETECTION INTERVAL 000000000001

Ready Connected Server(s): 2 Objects: 1 UPPER|CAP|NUM|SCRL

Monitor Resources: System Trace



CA IDMS Visual DBA - [Philttest - Normal - 1]

File Edit View Node Window Help

Philttest - Normal - 1

Dictionary

- CV DBTable
- CV DMCL
- CV System
- Activity
- Central Version
- BC
 - ABSO
 - DBS Line
 - Limit
 - Loadlib
 - LV
 - MPMode
 - MT Queue Depth
 - Nucleus Reload
 - Reply pending
 - Report Class/Destination
 - Scratch
 - SNA Pterm
 - Snap
 - SubTask
 - TCP/IP Socket
 - Time
 - Trace System
 - System trace is ON
 - UCF Terminal
- Statistics

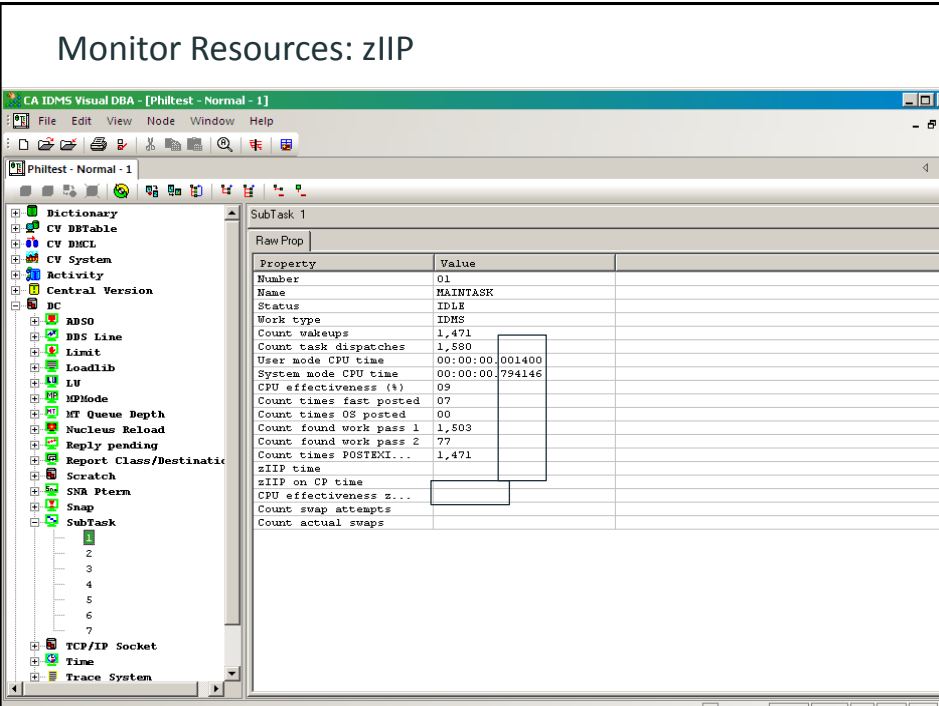
Trace System DC

Trace System Raw Prop

Name
System trace is ON

Ready Connected Server(s): 1 Objects: 1 UPPER|CAP|NUM|SCRL

Monitor Resources: zIIP



CA IDMS Visual DBA - [Philttest - Normal - 1]

File Edit View Node Window Help

Philttest - Normal - 1

Dictionary

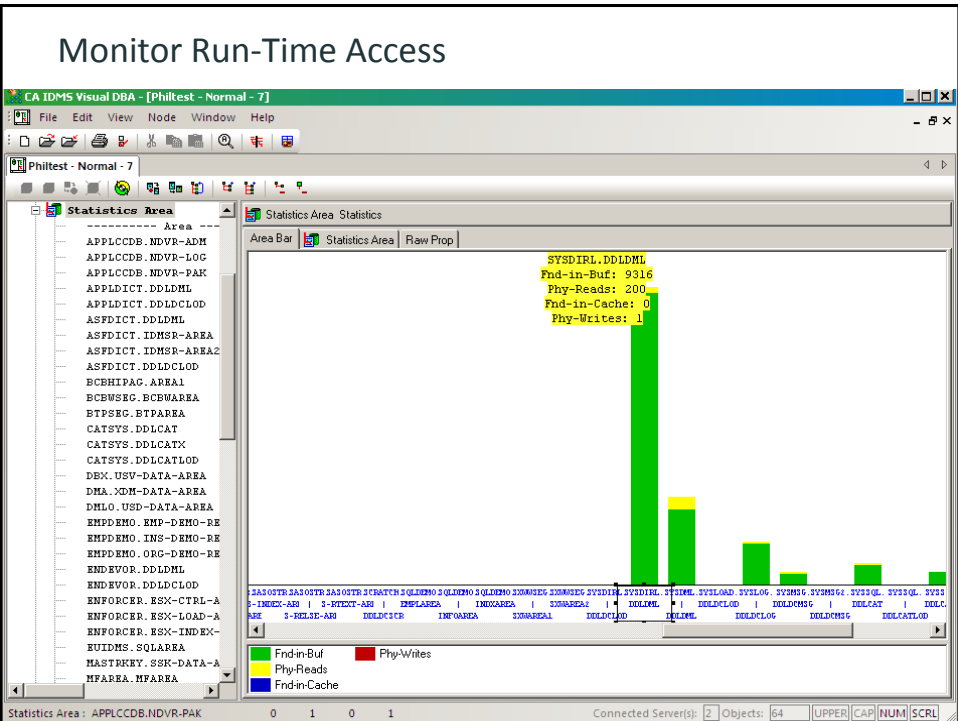
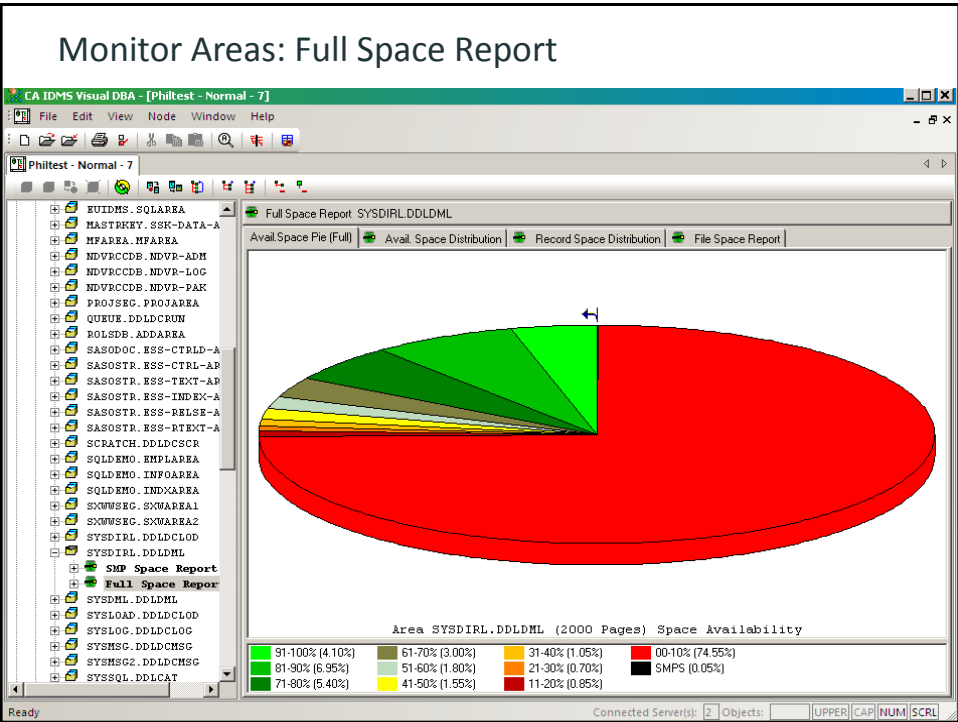
- CV DBTable
- CV DMCL
- CV System
- Activity
- Central Version
- BC
 - ABSO
 - DBS Line
 - Limit
 - Loadlib
 - LV
 - MPMode
 - MT Queue Depth
 - Nucleus Reload
 - Reply pending
 - Report Class/Destination
 - Scratch
 - SNA Pterm
 - Snap
 - SubTask
 - 2
 - 3
 - 4
 - 5
 - 6
 - 7
 - TCP/IP Socket
 - Time
 - Trace System

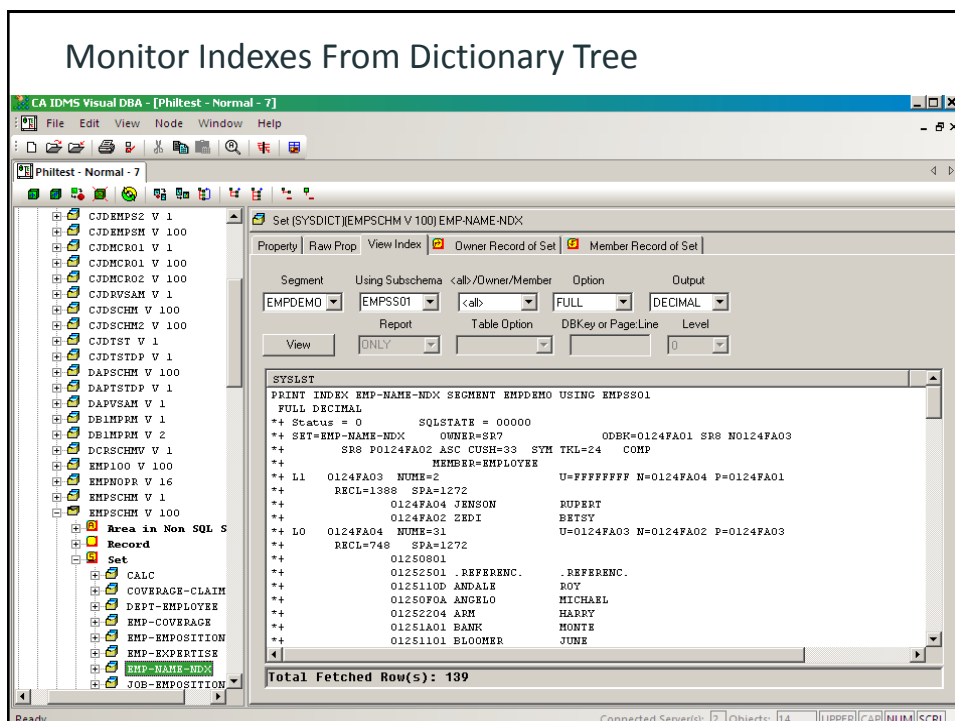
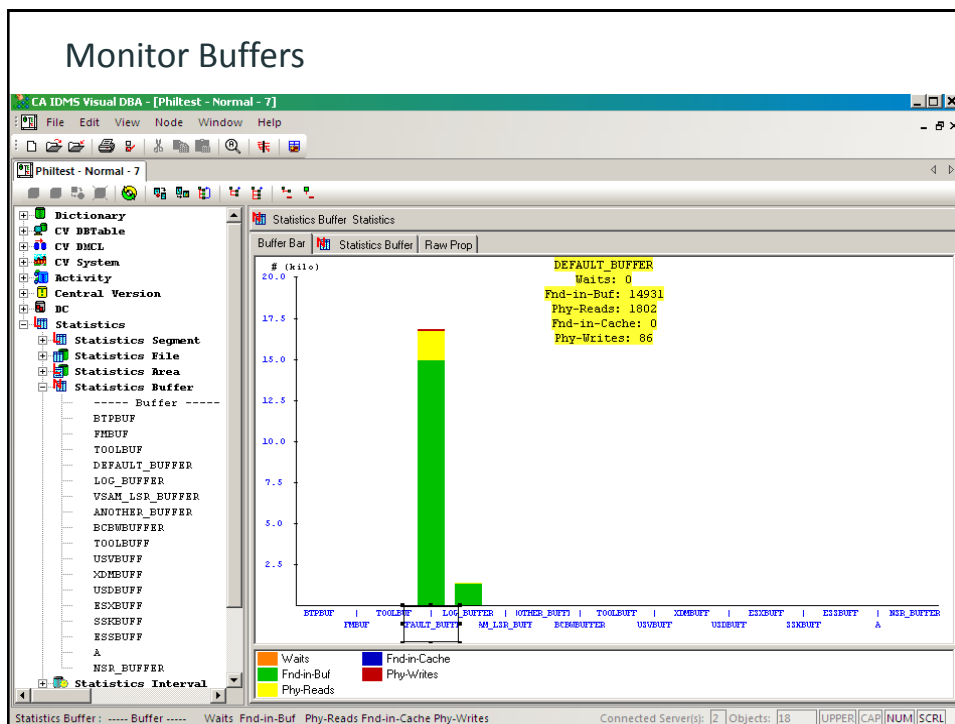
SubTask 1

Raw Prop

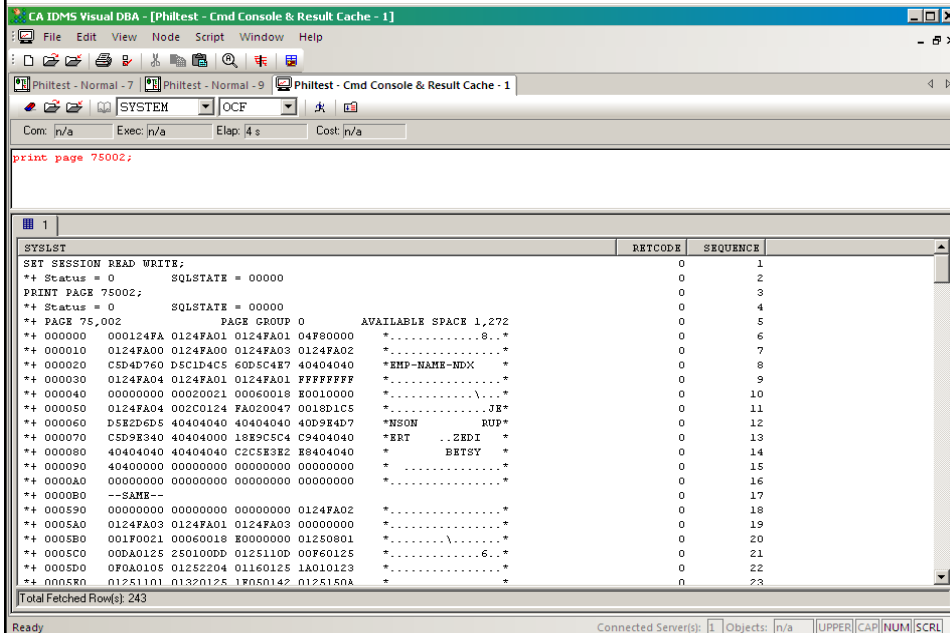
Property	Value
Number	01
Name	MAINTASK
Status	IDLE
Work type	IDMS
Count wakeups	1,471
Count task dispatches	1,580
User mode CPU time	00:00:00.001400
System mode CPU time	00:00:00.794146
CPU effectiveness (%)	09
Count times fast posted	07
Count times OS posted	00
Count found work pass 1	1,503
Count found work pass 2	77
Count times POSTEXT...	1,471
zIIP time	
zIIP on CP time	
CPU effectiveness z...	
Count swap attempts	
Count actual swaps	

Ready Connected Server(s): 1 Objects: 7 UPPER|CAP|NUM|SCRL





Command Console: Submit Familiar Syntax



CA IDMS Visual DBA - [Philttest - Cmd Console & Result Cache - 1]

File Edit View Node Script Window Help

Philttest - Normal - 7 Philttest - Normal - 9 Philttest - Cmd Console & Result Cache - 1

SYSTEM OCF

Com: n/a Exec: n/a Elap: 4 s Cost: n/a

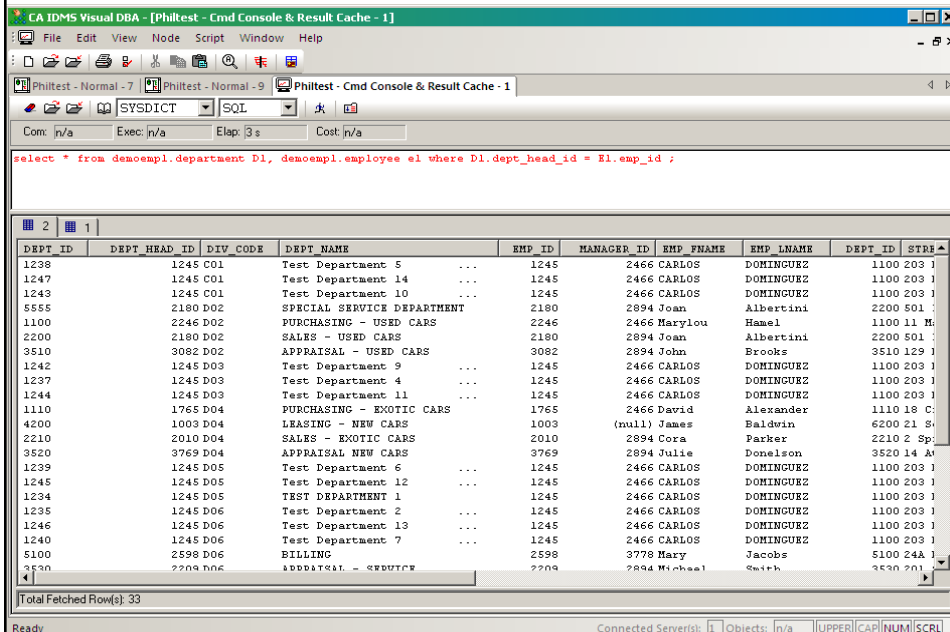
```
print page 75002;
```

SYSIST	RETCODE	SEQUENCE
SET SESSION READ WRITE;	0	1
++ Status = 0 SQLSTATE = 00000	0	2
PRINT PAGE 75002;	0	3
++ Status = 0 SQLSTATE = 00000	0	4
++ PAGE 75,002 PAGE GROUP 0 AVAILABLE SPACE 1,272	0	5
++ 000000 000124FA 0124FA01 0124FA01 04F80000 *.....8..*	0	6
++ 000010 0124FA00 0124FA00 0124FA03 0124FA02 *.....*	0	7
++ 000020 CSD4D760 D5C1D4C5 60D5C4E7 40404040 *EMP-NAME-NDX*	0	8
++ 000030 0124FA04 0124FA01 0124FA01 FFFFFFFF *.....*	0	9
++ 000040 00000000 00020021 00060018 E0010000 *.....*	0	10
++ 000050 0124FA04 002C0124 FA020047 0018D1C5 *.....JE*	0	11
++ 000060 D5E2D6D5 40404040 40404040 40D9EAD7 *NSON RUP*	0	12
++ 000070 CSD9E340 40404000 18E9C5C4 C9404040 *ERT ..ZEDI *	0	13
++ 000080 40404040 40404040 CC2E3E2 E0404040 * BETSY *	0	14
++ 000090 40400000 00000000 00000000 00000000 *.....*	0	15
++ 0000A0 00000000 00000000 00000000 00000000 *.....*	0	16
++ 0000B0 --SAME--	0	17
++ 000590 00000000 00000000 00000000 0124FA02 *.....*	0	18
++ 0005A0 0124FA03 0124FA01 0124FA03 00000000 *.....*	0	19
++ 0005B0 001F0021 00060018 E0000000 01250801 *.....*	0	20
++ 0005C0 00DA0125 250100D0 0123110D 00F60125 *.....6..*	0	21
++ 0005D0 0F0A0105 01252204 01160125 1A010123 *.....*	0	22
++ 0005E0 012K1101 01320125 1F050142 0125150A *.....*	0	23

Total Fetched Row(s): 243

Ready Connected Server(s): 1 Objects: n/a UPPER|CAP|NUM|SCRL

SQL Assistant Builds Executable Syntax



CA IDMS Visual DBA - [Philttest - Cmd Console & Result Cache - 1]

File Edit View Node Script Window Help

Philttest - Normal - 7 Philttest - Normal - 9 Philttest - Cmd Console & Result Cache - 1

SYS DICT SQL

Com: n/a Exec: n/a Elap: 3 s Cost: n/a

```
select * from demoempl.department d1, demoempl.employee e1 where d1.dept_head_id = e1.emp_id ;
```

DEPT ID	DEPT HEAD ID	DIV CODE	DEPT NAME	EMP ID	MANAGER ID	EMP FNAME	EMP LNAME	DEPT ID	STR
1238	1245 C01		Test Department 5	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
1247	1245 C01		Test Department 14	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
1243	1245 C01		Test Department 10	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
5555	2180 D02		SPECIAL SERVICE DEPARTMENT	2180	2894 Joan	Albertini	2200 501		
1100	2246 D02		PURCHASING - USED CARS	2246	2466 Marylou	Hamel	1100 11 M		
2200	2180 D02		SALES - USED CARS	2180	2894 Joan	Albertini	2200 501		
3510	3082 D02		APPRAISAL - USED CARS	3082	2894 John	Brooks	3510 129		
1242	1245 D03		Test Department 9	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
1237	1245 D03		Test Department 4	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
1244	1245 D03		Test Department 11	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
1110	1765 D04		PURCHASING - EXOTIC CARS	1765	2466 David	Alexander	1110 18 C		
4200	1003 D04		LEASING - NEW CARS	1003	(null) James	Baldwin	6200 21 S		
2210	2010 D04		SALES - EXOTIC CARS	2010	2894 Cora	Parker	2210 2 Sp		
3520	3769 D04		APPRAISAL NEW CARS	3769	2894 Julie	Donelson	3520 14 A		
1239	1245 D05		Test Department 6	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
1245	1245 D05		Test Department 12	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
1234	1245 D05		TEST DEPARTMENT 1	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
1235	1245 D06		Test Department 2	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
1246	1245 D06		Test Department 13	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
1240	1245 D06		Test Department 7	...	1245	2466 CARLOS	DOMINGUEZ	1100 203	
5100	2598 D06		BILLING	2598	3778 Mary	Jacobs	5100 24A		
3520	2705 D06		APPRAISAL - EXOTIC CARS	2705	2894 Michael	Smith	3520 20		

Total Fetched Row(s): 33

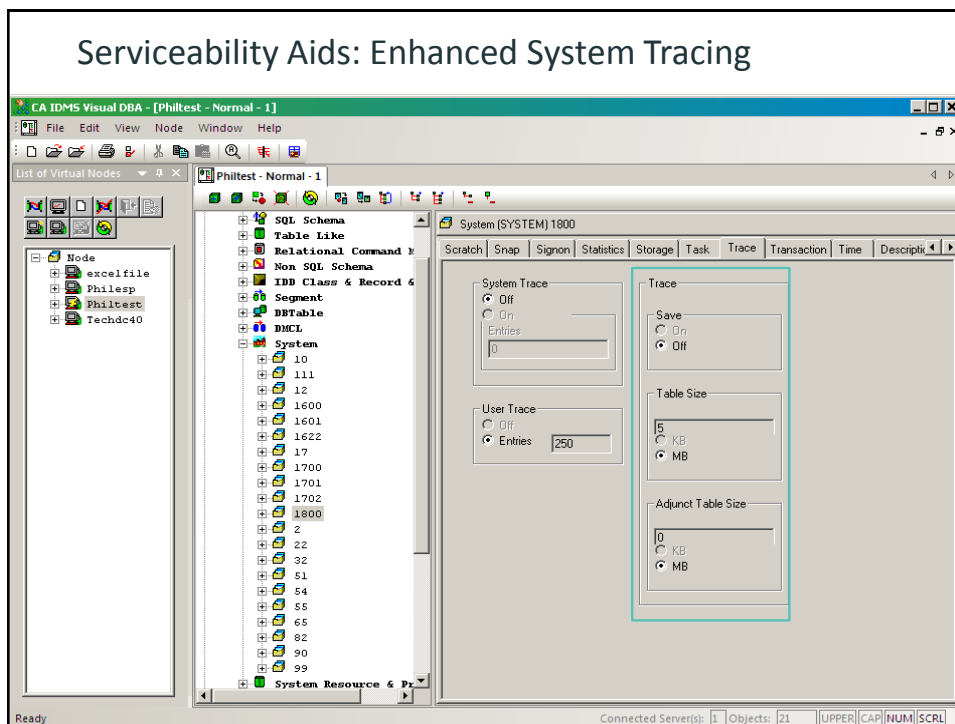
Ready Connected Server(s): 1 Objects: n/a UPPER|CAP|NUM|SCRL

Changes Supporting CA IDMS Version 18 Features

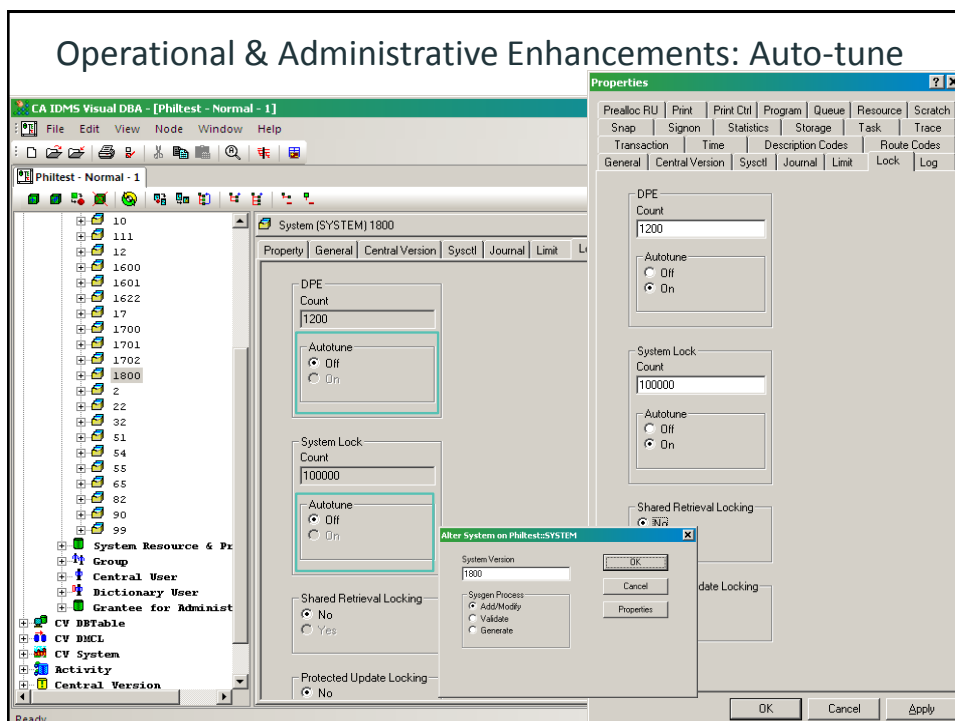
Support CA IDMS Version 18.0 Features

- ✓ **Non-stop process features**
 - Expanded statistics fields
 - Interval roll for statistics
- ✓ **Operational and administrative enhancements**
 - Auto tuning
 - zIIP time reporting
 - Type qualifier on Vary Program
 - PRINT SPACE page reserve reporting
 - DCMT Display All Queues
 - System definition enhancements
- ✓ **SQL enhancements**
 - Alter and drop column
 - Alter index extensions
 - Alter constraint support
 - Adding a default index
 - Large key support
- ✓ **Serviceability aids**
 - Enhanced system tracing
 - DCMT Display Log enhancement
 - Enhanced module identification

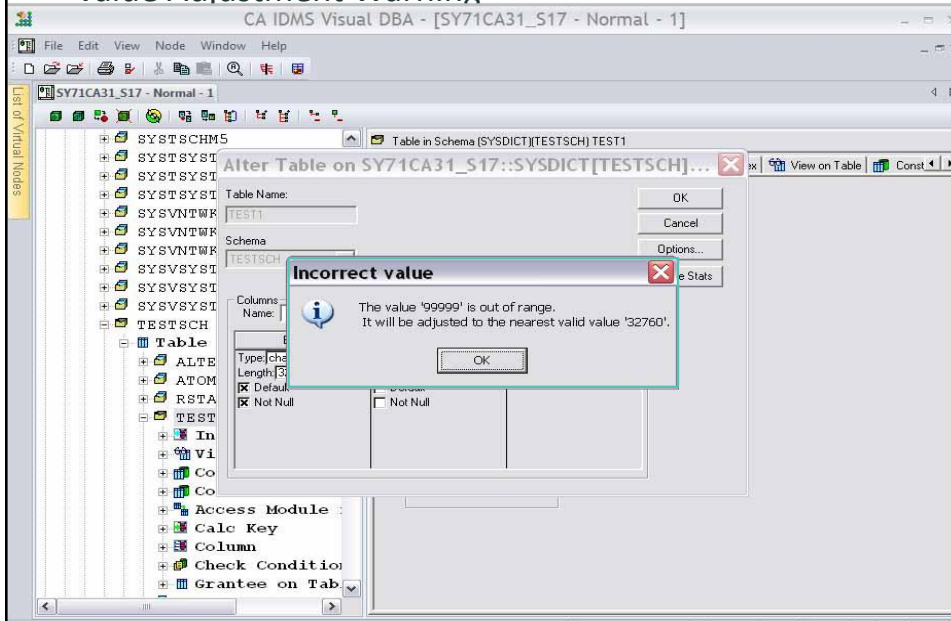
Serviceability Aids: Enhanced System Tracing



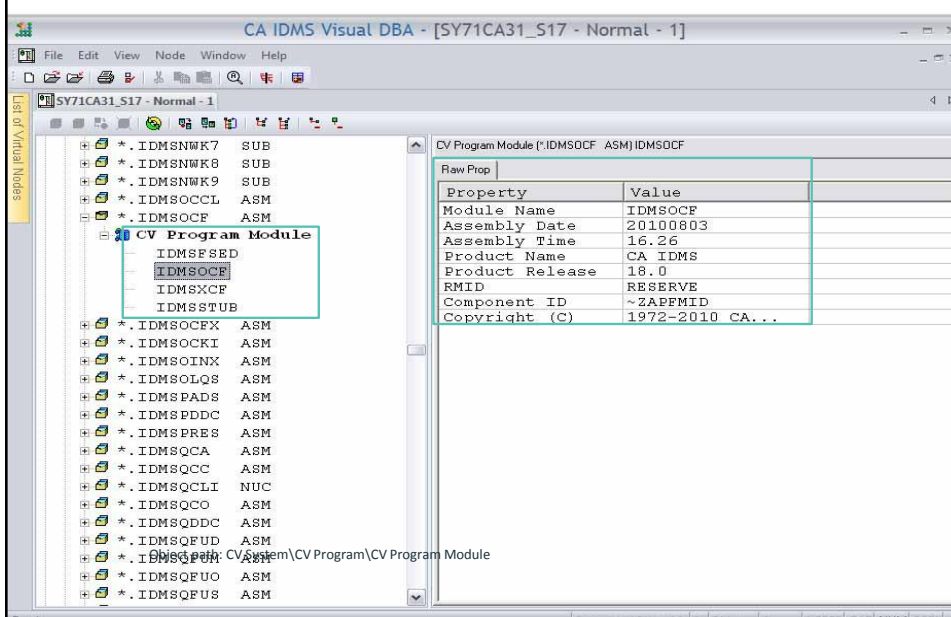
Operational & Administrative Enhancements: Auto-tune



VDBA Version 18 Improvements Value Adjustment Warning



Serviceability Aids Enhanced Module Identification



Summary

- CA IDMS Visual DBA is a GUI-based tool that makes **administering, monitoring, learning and using** CA IDMS easy!
- Shortens learning curve for next generation MF workers
- Provides dashboard to manage, monitor, drag&drop

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CA IDMS™ Technical Conference

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Questions and Answers

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