iDoctor What's New June – Oct 2010

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iDoctor Development

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iDoctor update resources

iDoctor e-mail list: usage tips, build updates, PTF info

iDoctor update history: embedded into the GUI. Search the list on the topic of interest.

IBM i 7.1 Technical Overview – Covers all updates from 6.1 GA to 7.1 GA *: http://www.redbooks.ibm.com/redbooks.nsf/RedpieceAbstracts/sg247858.html?Open

iDoctor Forum: http://www.ibm.com/developerworks/forums/forum.jspa?forumID=871

* DS6000/DS8000 support was added to 7.1 and 6.1 with Collection Services Investigator in April (links/ranks/cache statistics). See page 213 (actual page 235 within Acrobat).

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Jun-Oct 2010 - Overview

Current Focus Areas

Latest builds

Collection Summary enhanced (in CSI and JW)

SQL Tables/Comparison enhancements

Create Job Summary enhanced (in CSI and JW)

Visual Studio 2008 redistributable now a GUI install prerequisite

Monitors usability enhancements

Miscellaneous

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Jun-Oct 2010 – Current Focus Areas

Making users more productive (always our #1 goal!)

Comparing data in iDoctor more effectively:
> SQL table support
> Quick view comparisons
> Additional analyses and graphs
> Goal: Reduce/eliminate users needing to go to tools like Excel

External storage
> Tom McBride working on server-side VIOS data collection enablement.

Surface new metrics/features added to OS

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Jun-Oct 2010 – Comparison Graph Example

The following graph was done by Helen Olson-Williams, and shows how batch workloads performed differently in a customer's application based on several different factors:

Graph label details:
1GB - memory pool size where job is running
12dsk - number of disk drives
1.0P - number of processing units, i.e. number of cores
Jcache - journal cache attribute set to *yes
ASPB - we had used trcaspbal and straspbal *hsm to move hot data to SSDs prior to this run
TRCASP - this was the run where we had trcaspbal running to collect info on the hot sectors
PStats - we were running PEX STATS at this time so run probably wasn't valid from a comparison point of view
2IOAs - we added an IOA to the config and spread the drives across 2 IOAs instead of 1.
12DSK + SSDs - we used media preference to move hot data to the SSDs prior to this run.

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Jun-Oct 2010 –Comparison Graph Example
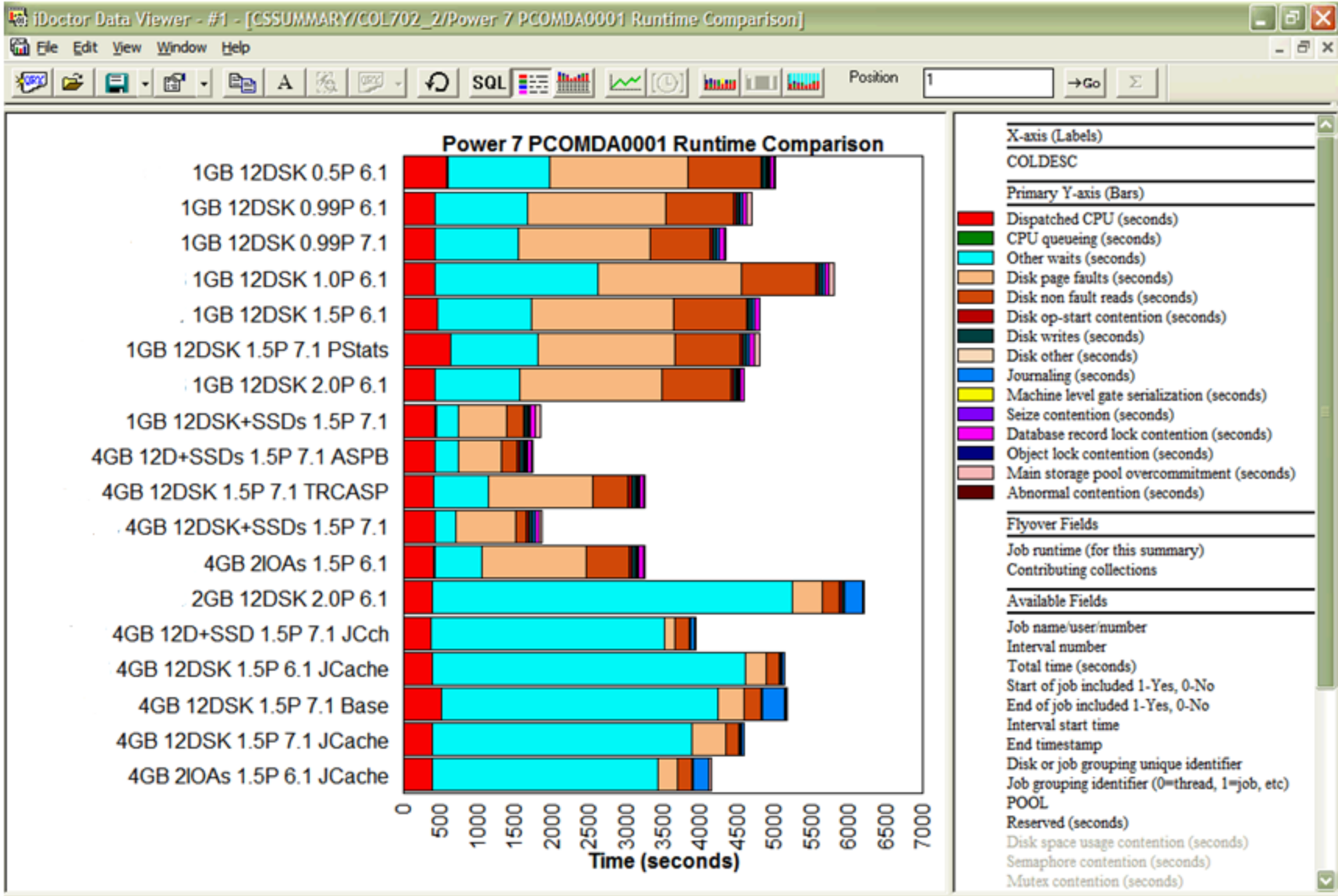
Jun-Oct 2010 – Comparison Graph Example

With the current builds, the following steps are needed:

1. Run a create job summary for each job/generic job you wish to analyze.
2. Use SQL to merge multiple create job summaries into 1 table.
   INSERT INTO TABLE1 (SELECT * FROM TABLE2)
3. Alter the table adding a description column
   ALTER TABLE TABLE1 add column desc varchar(100)
4. Modify the description for each desired row or set of rows using SQL.
   update TABLE1 set desc = 'COL 1 INFO' where mbr = 'COL1'
5. Open the Create Job Summary job rankings graph over the 'merged' results table.
6. Modify the SQL to include DESC column in the output and change the legend so the label shown on graph is the DESC column.

In the future we'd like to make this easier, by adding built in options to merge SQL tables, adding description columns within the SQL tables, and add GUI options to modify the descriptions.

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Jun-Oct 2010 – New Builds

Released 2 rounds of external builds in Sept, and again on Oct 13th.

Plan is to not update again for a several months unless there is a critical issue.

Generally try to do 3 or 4 major updates a year.

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Jun-Oct 2010 – Collection Summary vs Create Job Summary

Feature	Collection Summary	Create Job Summary
SQL Tables format	By time interval	By job or thread
Includes 1 record totals SQL table	Yes (CSI only)	No
Analyze multiple collections (per table)	No	Yes
Rankings graphs	Yes, over filtered collection data. Might be slow.	Yes, over SQL tables. FAST!
By time graphs	Yes	No*
Filter by job, subsystem, time	Yes	Yes
Filter by current user	Yes	No
Filter by pool	Not yet	Not yet

* No over time graphs are available in Create Job Summary, except when drilling down in Job Watcher to graph a single job/thread over time.

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Jun-Oct 2010 – Collection Summary (JW and CSI)

"Summarize" menu moved under "Analyses" -> "Run Collection Summary".
Also accessible from "Analyses" -> "Analyze Collection" if you want to run it in batch.

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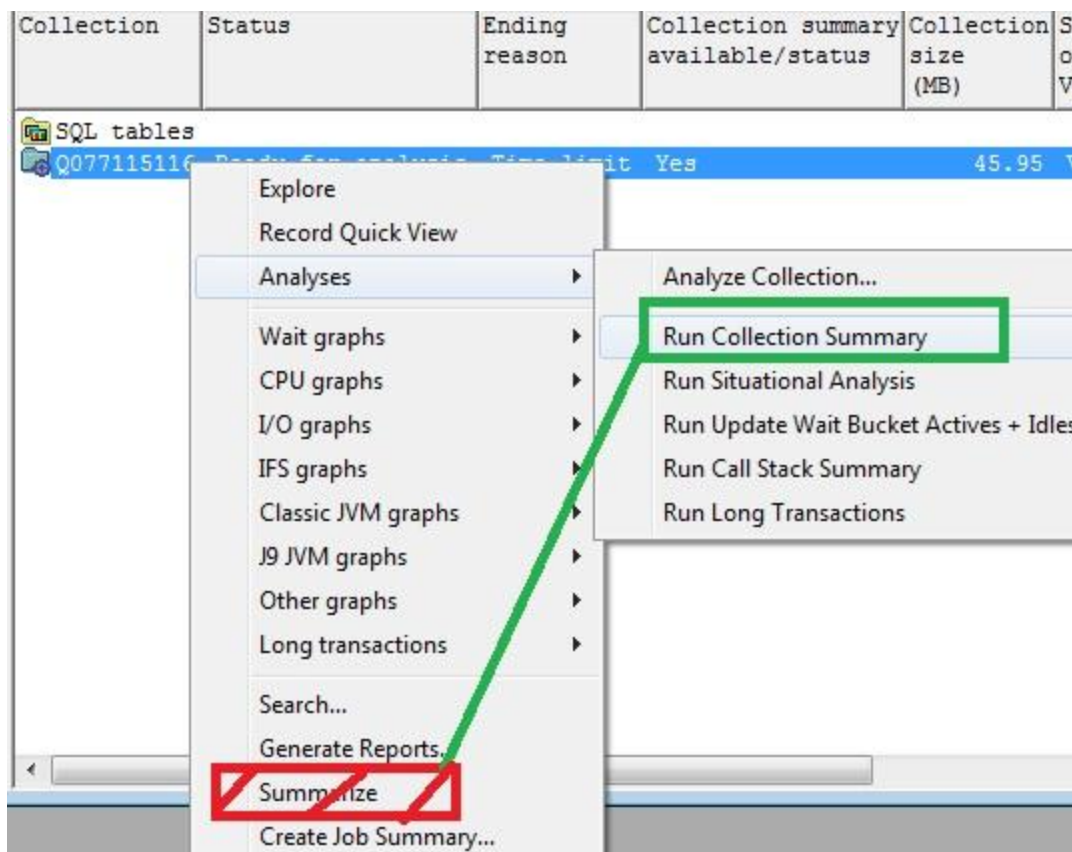
Jun-Oct 2010 – Collection Summary (JW and CSI)

"Analyses" -> "Analyze Collection" menu will now show Analyze Collection(s) window.
Preferences button shows the Situational Analysis options.

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Jun-Oct 2010 – Collection Summary (JW)

In order to simplify the Job Watcher summary, the "Collection Summary" analysis now **always** includes the following steps from the Summarize Window found in earlier builds:

Create interval summary
Create process interval summary (QAPYJWPRC stats)
Create wait bucket gap file (i.e. actives + idles)
Create collection aliases

The remaining steps have now become new Job Watcher "analyses". Those are:

Run situational analysis
Run update wait bucket actives + idles
Run call stack summary
Run long transactions (at 6.1+ only)

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Jun-Oct 2010 – Collection Summary (JW and CSI)

Filters are OPTIONAL but necessary if you want to do comparisons under the SQL tables folder.

If filters are NOT used then Summarized status will become "Yes" and the normal summarized graphs are used under the collection.

If filters are used then you can access graphs over the filtered Collection Summary SQL table generated. **Note:** *Currently in order for all the drill downs to work properly you must also summarize the entire collection without using any filters.*

Client 805 or higher needed

Run Collection Summary - Rchaskmb

This option will produce interval summary SQL tables for the following collection(s):

NOTE: If you do not wish to filter the data just press the Submit button to continue:

If no filters are used, then the summarized tables will be utilized as the default set of iDoctor graphs.

Collection name	
BENFIELD/Q268000009	

Selected collections shown here

SQL Tables filter (OPTIONAL):

Job name: contains

Job user name:

Job number:

Job current user profile:

Subsystem name contains:

Start time: 2010-09-25-00.00.09

End time: 2010-09-26-00.00.00

Comments:

Comment attached to SQL table

Submit   Cancel

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Jun-Oct 2010 – Collection Summary (JW)

JW interval summary SQL table example:

Description	Library	Collection(s)	VRM	Comments	Job	Current user	Subs...	Start	End	SQL Table Name
Interval summary file	CRAVENS1	Q077115116	V6R1M0	QZDA jobs only	QZDA/*/*					aidrjwsum_q077115116_qzda
Interval summary file	CRAVENS1	Q077115116	V6R1M0							aidrjwsum_q077115116

Open Table(s)
Record Quick View

Wait graphs ▶
CPU graphs ▶
I/O graphs ▶
IFS graphs ▶
Other graphs ▶

Edit Comment

Delete...

Properties

In some cases (Create Job Summary, there will be multiple collections listed)

Optional filters

In the future there will be options to put the comments directly on the graph if doing a comparison

Actual SQL table name

Graphs using the QZDA jobs only filter

Note: The file built QAIDRJWSUM_<<MBRNAME>>* now contains totals from file QAPYJWPRC as well as QAPYJWTDE/QAPYJWSTS.

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Jun-Oct 2010 – Collection Summary (JW)

Comparing QZDA jobs contributions to wait buckets vs all jobs:

Corporation
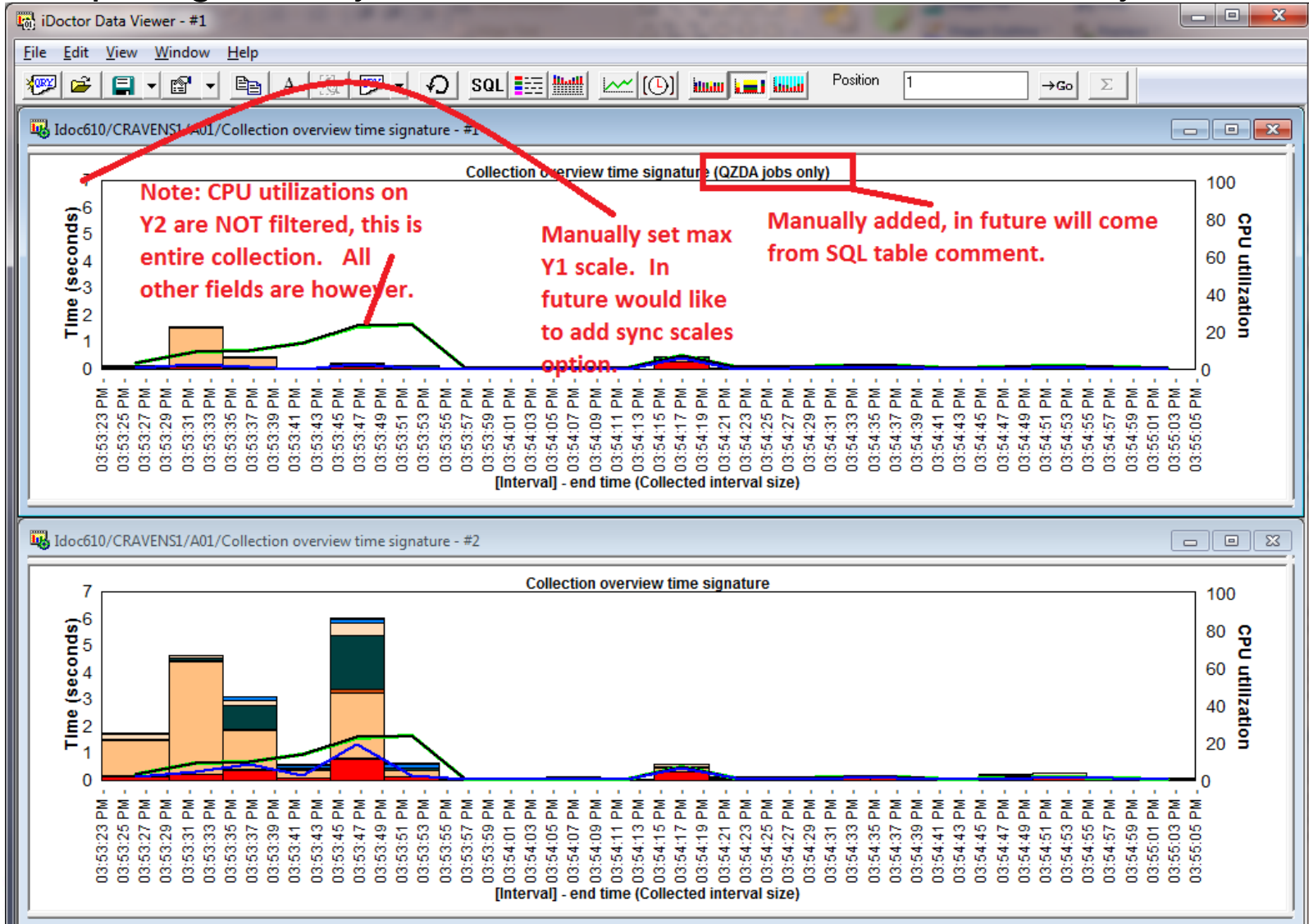
Jun-Oct 2010 – Collection Summary (JW)

Drill downs from filtered overview, maintain the same filtering:
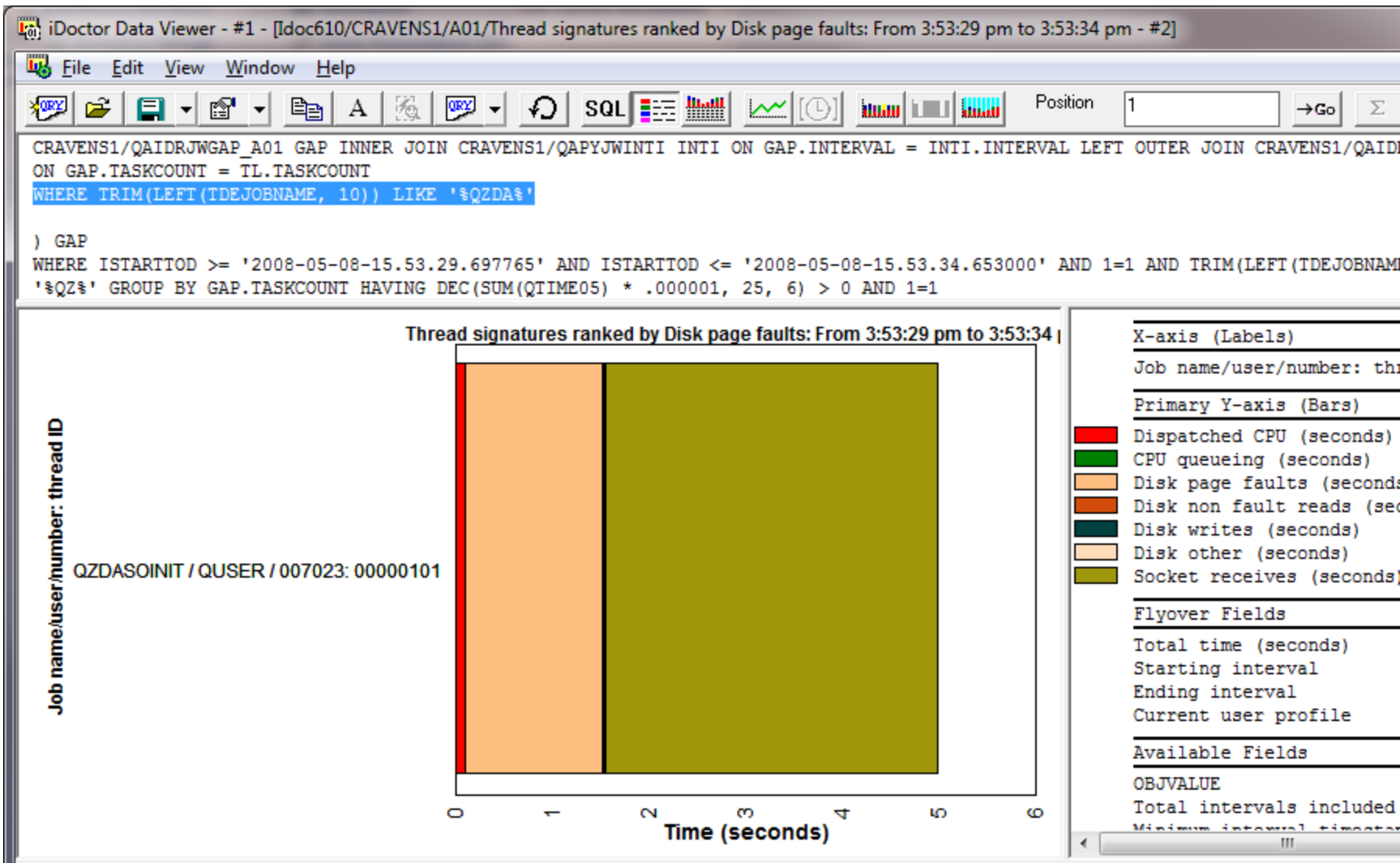
Jun-Oct 2010 – Collection Summary (JW) - Future

Need more flexibility in creating/showing comments on a per collection basis.

Need options to synchronize the min/max scales when comparing graphs in Data Viewer.

What other comparison graphs do you want in JW?

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Jun-Oct 2010 – Collection Summary (CSI)

Just like JW, the CS Collection Summary can be filtered by time range, job, current user or subsystem to produce unique graphs.

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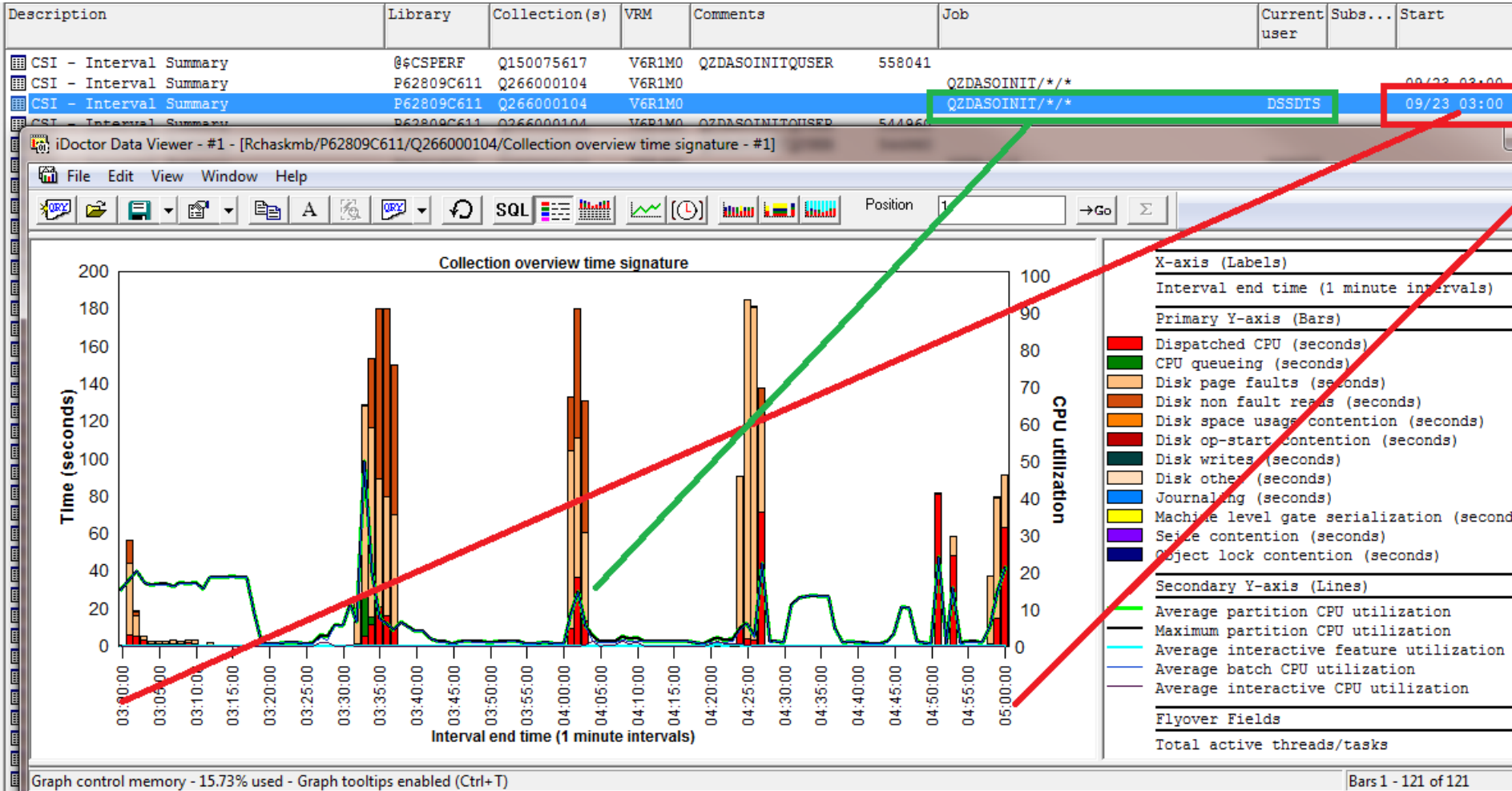
Jun-Oct 2010 – Collection Summary (CSI)

Unlike JW, the CS Collection Summary SQL tables only provides the Wait graphs as a graphing option.

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Jun-Oct 2010 – Collection Summary (CSI) Totals

The analysis also includes an iDoctor Collection Summary Totals SQL table automatically for every analysis ran.
This is a 1 record summary over the collection or filtered data.
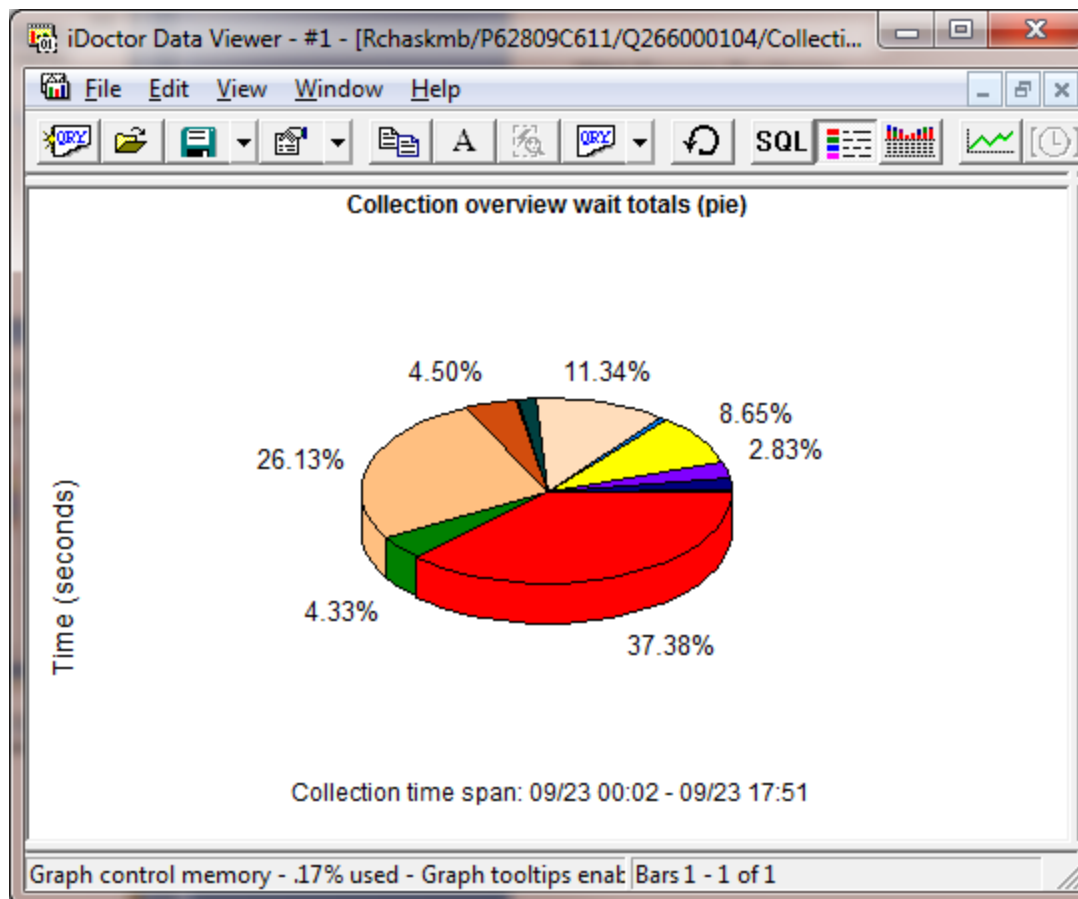
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Jun-Oct 2010 – Collection Summary (CSI)

Ranking the wait buckets in the SQL table.
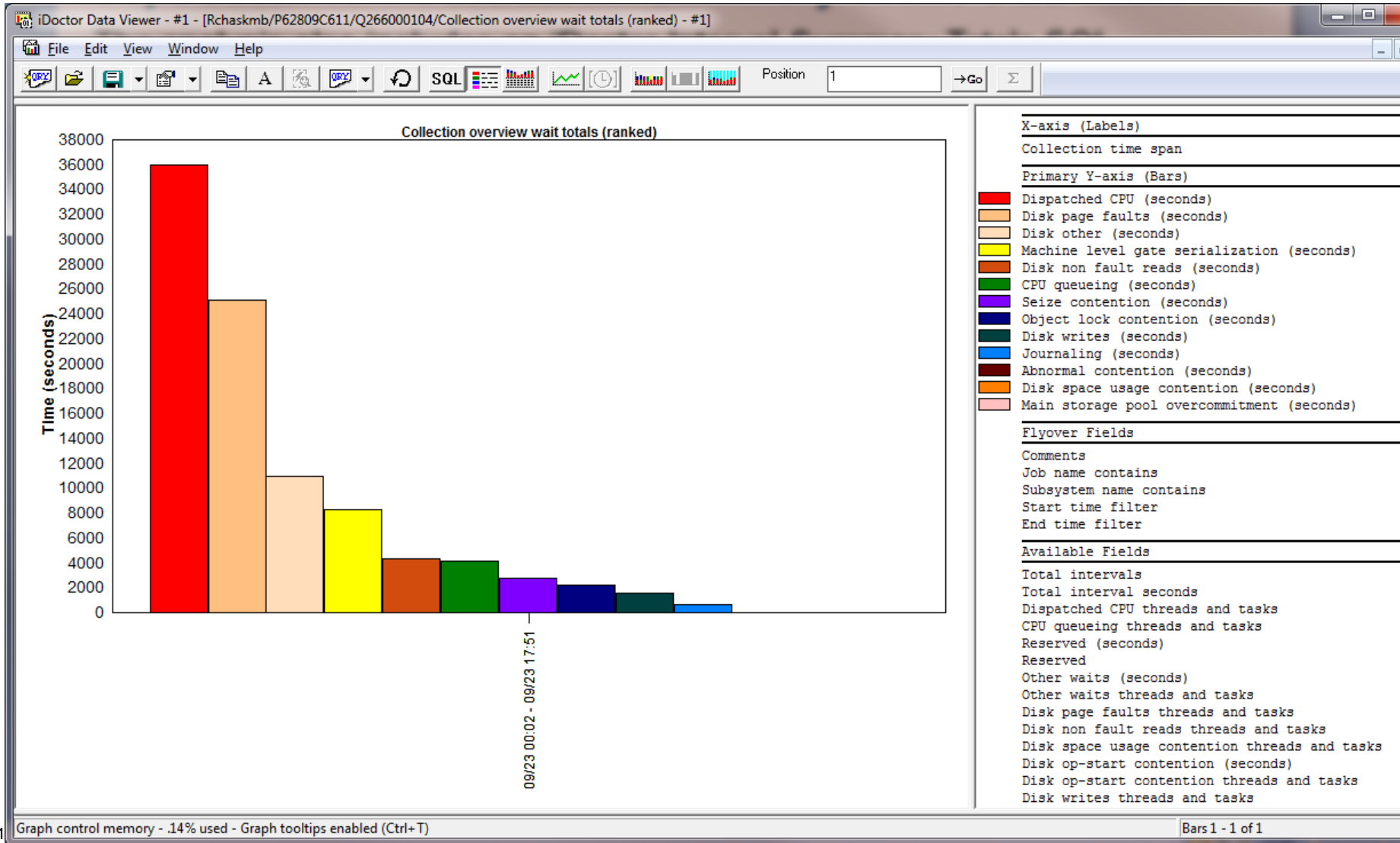
Jun-Oct 2010 – Collection Summary (CSI)

Pie chart of "interesting" wait bucket distribution also available.
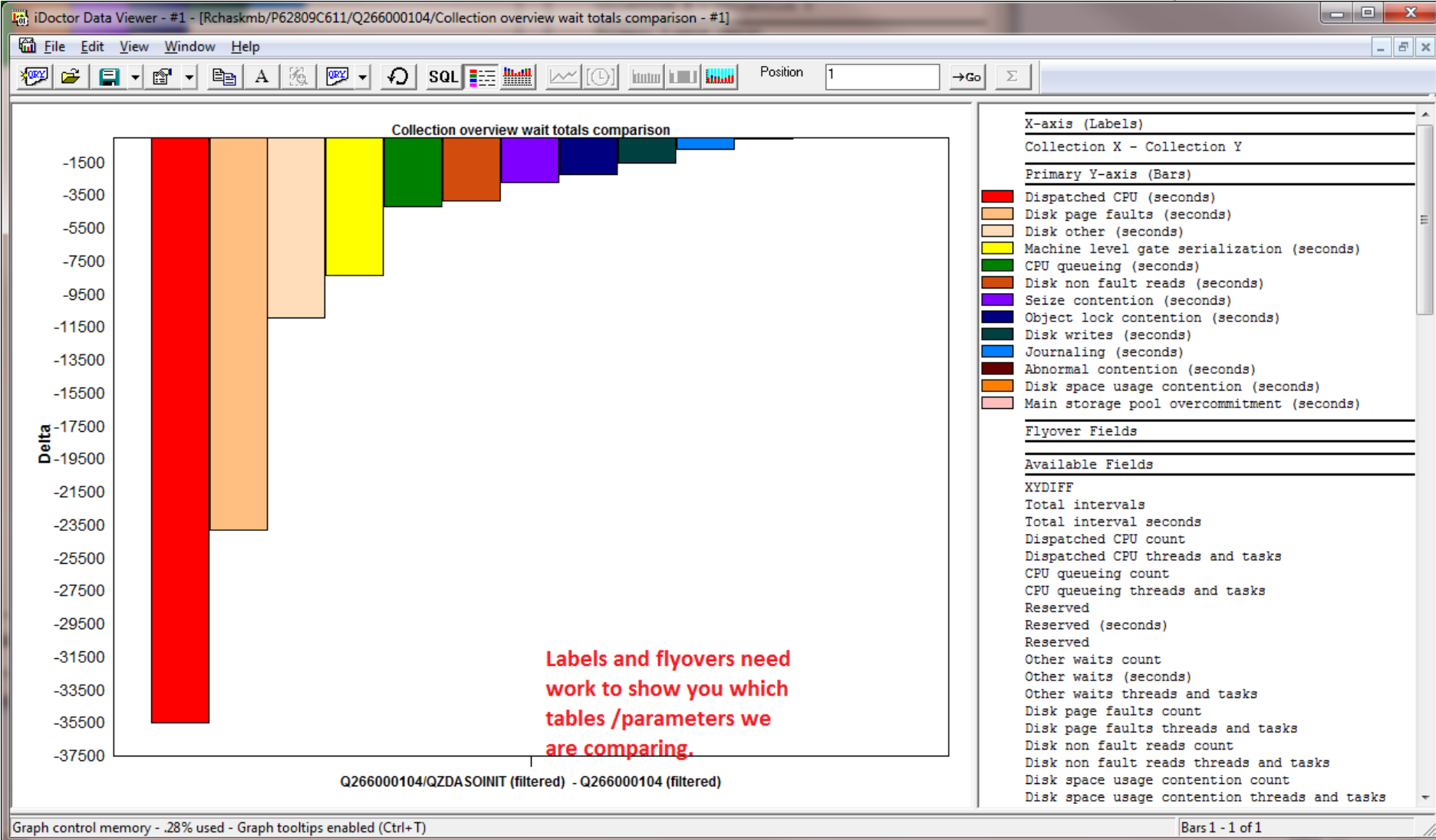
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Jun-Oct 2010 – Collection Summary (CSI)

PDIO rates (ranked or in pie chart form) are included.
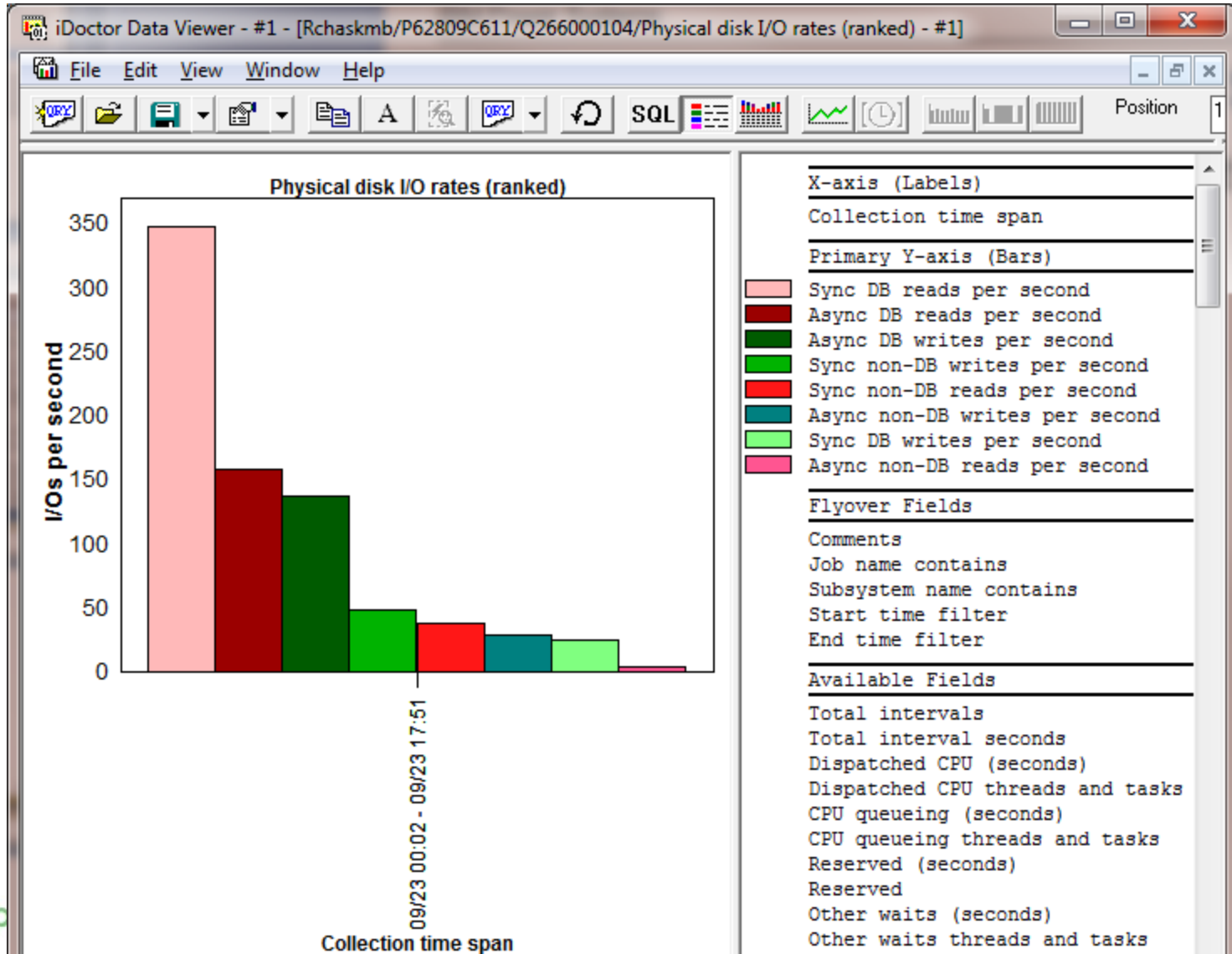
Jun-Oct 2010 – Collection Summary (CSI)

Delta comparison between wait buckets in 2 Collection Summary totals

Jun-Oct 2010 – Collection Summary (CSI) - Future

Need more flexibility in creating/showing comments on a per collection basis (not just per run).

SQL merge tables function

Need options to synchronize the min/max scales when comparing graphs in Data Viewer.

What other comparison graphs do you want in CSI?
(memory? disk? showing what exactly?)

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Jun-Oct 2010 – SQL Tables Overview

SQL Tables folder is a repository in iDoctor for the SQL tables generated by the analyses in iDoctor.

SQL Tables folder contains a subfolder for each type of SQL table generated by the iDoctor analyses.

Allows comparisons in some instances (CSI Collection Summary) and many drill down and graphing options (CSI/JW create job summary, CSI/JW Collection Summary) by right-clicking the SQL tables.

In some cases drill downs are accessible from the SQL tables after opening them and right-clicking the records within. (stats hier for one job)

Found in JW, PEX and CSI.

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Jun-Oct 2010 – SQL Tables Locations

Accessible from 2 locations (component or library level)

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Jun-Oct 2010 – SQL Tables Creation

The Analyses menu options generally match the SQL tables subfolders and are used to create the SQL tables.

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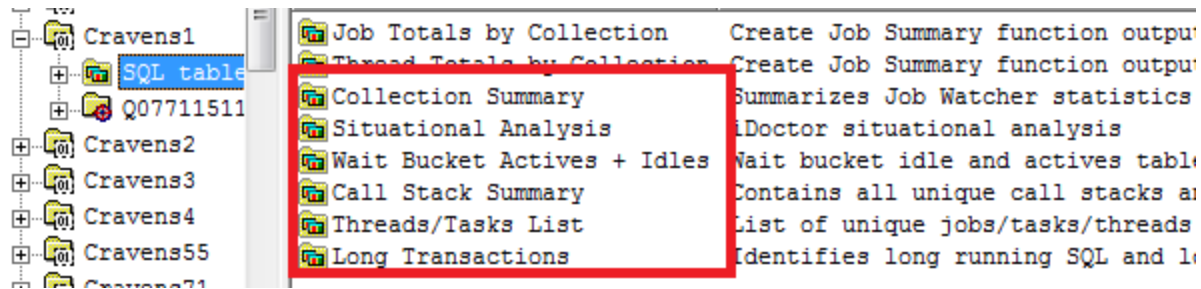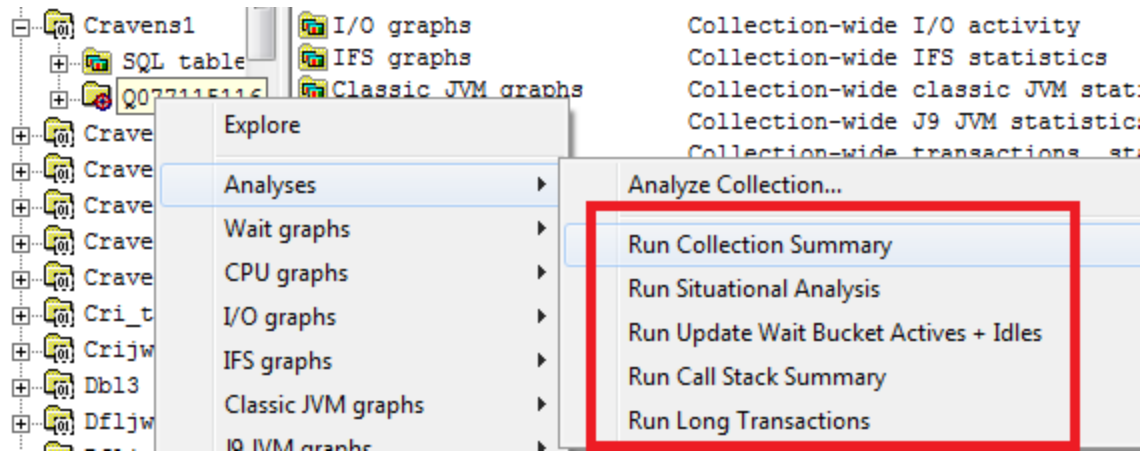
Jun-Oct 2010 – SQL Tables Deletion

For cleanup purposes, you can delete all SQL tables on the system, by library or by analysis

Power your planet.
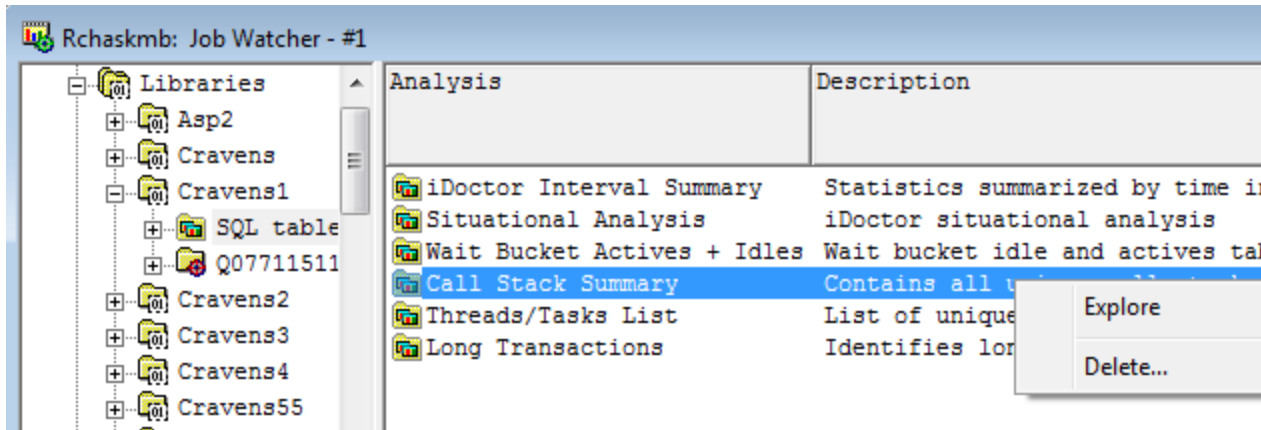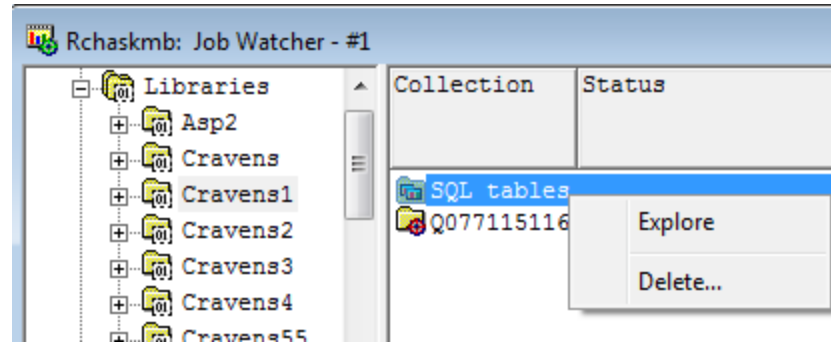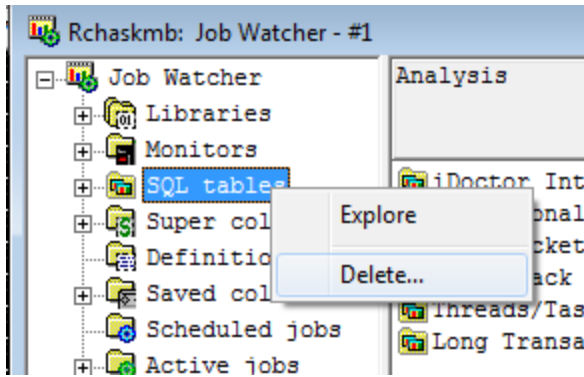
Jun-Oct 2010 – SQL Tables: CSI Collection Summary

CSI – Collection Summary currently only includes "Wait graphs"

Note: The same graphs are available after opening one of the SQL tables and right-clicking a row under the "Collection overview" menu.

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Jun-Oct 2010 – SQL Tables: CSI Collection Summary Totals

CSI – Collection Summary Totals "Collection overview wait totals comparison" graph show differences in total wait buckets between 2 SQL tables

Also includes wait bucket contributing jobs and counts per second as well as PDIO and LDIO graphs.
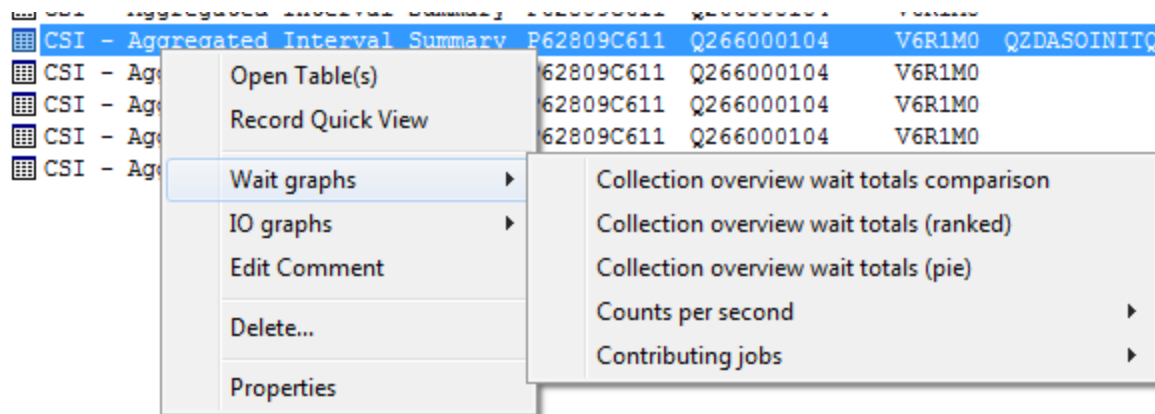
CSI - iDoctor Interval Summary Totals

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Jun-Oct 2010 – SQL Tables: CSI System Configuration

System configuration analysis includes 2 reports (show key fields or show all fields). Must select 2 SQL tables for this.

The SQL table is a field-described QAPMCONF

Description	Library	Collection(s)	
🖽 CSI - Configuration Information	P62809C611	Q266000104	
🖽 CSI - Configuration Information	PMR92635	Q270093957	
🖽 CSI ...	...ROY	Q288000125	

| Open Table(s) |
| Record Quick View |
| Compare configurations ▶ |
| Edit Comment |
| Delete... |
| Properties |

| Show key fields |
| Show all fields |

CSI - System Configuration (2 must be selected)

System name (SYS_NAME)	Collection library (COL_LIB)	Collection name (COL_NAME)	Version (VERSION)	Interval (in minutes) (INT_MINUTES)	Type (TYPE)	Model (MODEL)	Total processor cores (TOTAL_PROCS)	Installed processor cores (INSTALLED_PROCS)	Available processor cores (AVAILABLE_PROCS)	Virtual processors (VIRTUAL_PROCS)	Assigned processor cores (processor units) (PROC_UNITS)	
AMWKOR	P62809C611	Q266000104	610	1	9117	MMA	16	4	12	4	4.00	
INTERLG2	QPFRDATA	Q270093957	610	15	8203	E4A	4	4	0	1	1.00	

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Jun-Oct 2010 – SQL Tables: CSI Jobs Totals or Job Totals by Collection

Created by Create Job Summary function.
Provides Job rankings graphs for wait buckets, CPU, I/Os, and more

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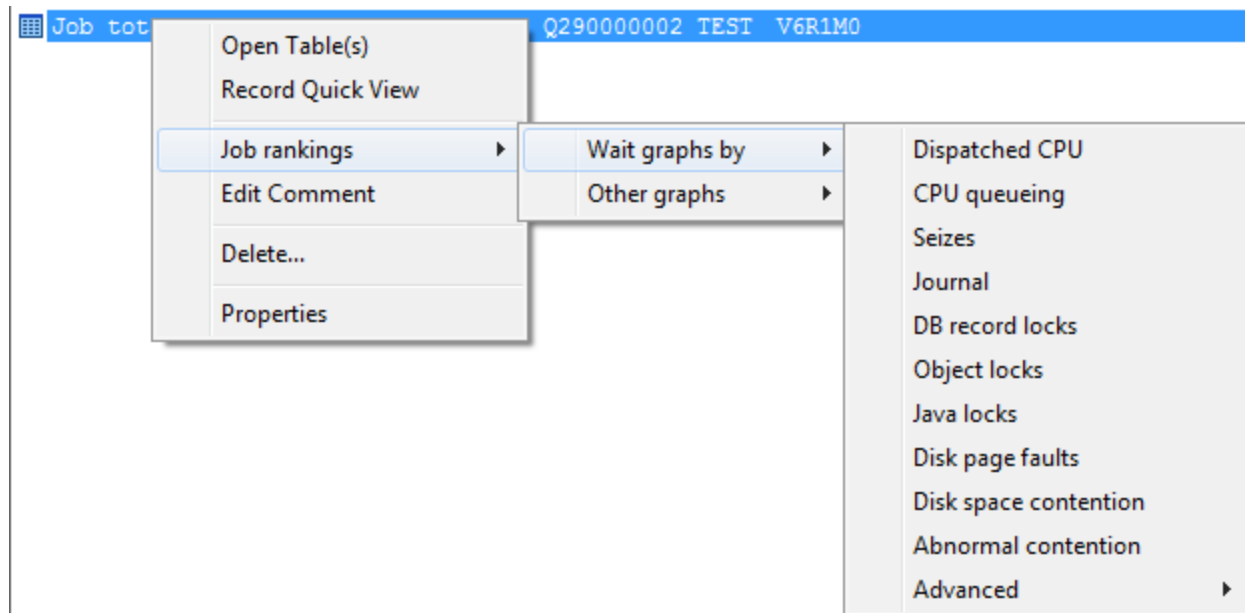
Jun-Oct 2010 – SQL Tables: CSI Jobs Totals or Threads Totals SQL tables

Open tables and select the desired jobs/threads to graph only the selected ones.
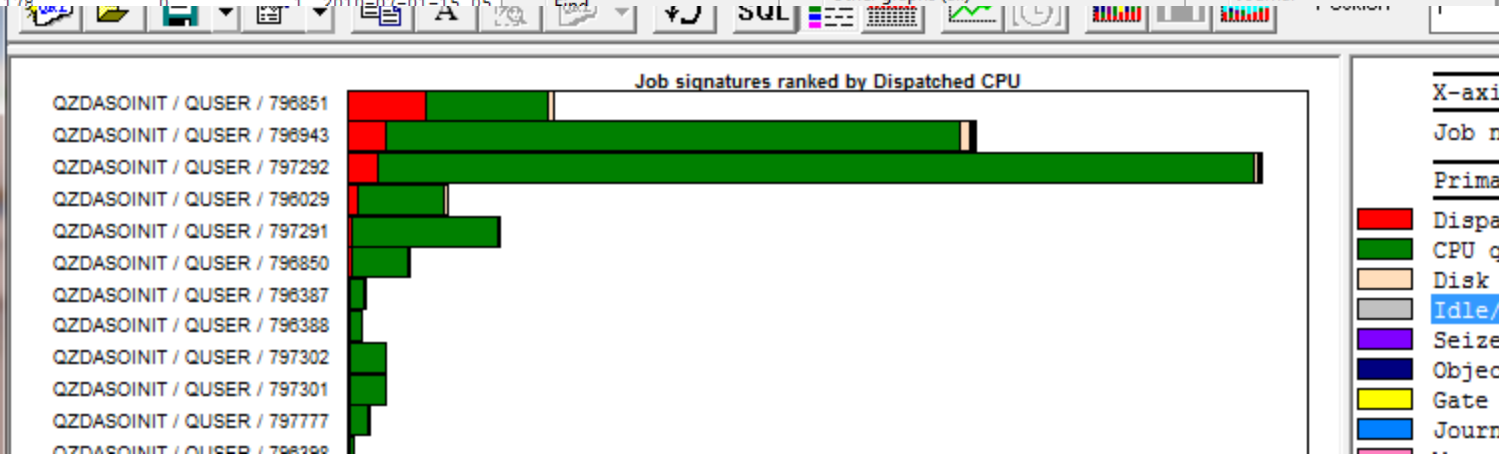
Contributing collections (MBRCOUNT)	Duration of job in hours (RUNTIME)	Elapsed interval seconds (TDESECS)	Start of job included 1-Yes, 0-No (JOBSTART)	End of job included 1-Yes, 0-No (JOBEND)	Start timestamp (STARTTIME)	End timestamp (ENDTIME)	Job name (JBNAME)	Job user (JBUSER)	Job number (JBNBR)	Current user profile (JBCUSR)	Job pool (JBPOOL)	CF (J
1	.650	2357	0	1	2010-07-01-09.05.00.000000	2010-07-01-09.44.17.000000	QZDASOINIT	QUSER	796017	QUSER	02	
1	.316	1159	1	1	2010-07-01-09.04.56.000000	2010-07-01-09.24.15.000000	QZDASOINIT	QUSER	796028	QUSER	02	
1	2.766	9972	1	1	2010-07-01-09.04.56.000000	2010-07-01-11.51.08.000000	QZDASOINIT	QUSER	796029	QUSER	02	
1	.650	2345	1	1	2010-07-01-09.55.14.000000	2010-07-01-10.34.19.000000	QZDASOINIT	QUSER	796387	QUSER	02	
1	.016	77	1	1	2010-07-01-09.55.15.000000	2010-07-01-09.56.32.000000	QZDASOINIT	QUSER	796388	QUSER	02	
1	.300	1106	1	1	2010-07-01-09.55.51.000000	2010-07-01-10.14.17.000000	QZDASOINIT	QUSER	796398	QUSER	02	
1	.466	1707	1	1	2010-07-01-09.55.51.000000	2010-07-01-10.24.18.000000	QZDASOINIT	QUSER	796399	QUSER	02	
1	2.900	10,468	1	1	2010-07-01-11.01.49.000000	2010-07-01-13.56.17.000000	QZDASOINIT	QUSER	796850	QUSER	02	
1	1.533	5559	1	1	2010-07-01-11.01.49.000000	2010-07-01-12.34.28.000000	QZDASOINIT	QUSER	796851	QUSER	02	
1	3.983	14,379	0	1	2010-07-01-11.25.00.000000	2010-07-01-15.24.39.000000	QZDASOINIT	QUSER	796943	QUSER	02	
1	.483	1758	1	1	2010-07-01-11.15.09.000000	2010-07-01-11.44.27.000000	QZDASOINIT	QUSER	796944	QUSER	02	
1	1.833	6648	1	1	2010-07-01-12.04.03.000000	2010-07-01-13.54.51.000000	QZDASOINIT	QUSER	797291	QUSER	02	
1	3.333	12,036	1	1	2010-07-01-12.04.03.000000	2010-07-01-15.24.39.000000	QZDASOINIT	QUSER	797292	QUSER	02	
1	.283	1056	1	1	2010-07-01-12.06.							
1	.283	1055	1	1	2010-07-01-12.06.							
1	.933	3369	1	1	2010-07-01-13.28.							
1	.433	1565	1	1	2010-07-01-13.28.							
1	3.916	14,105	0	1	2010-07-01-21.20.							
1	.316	1178	0	1	2010-07-01-15.05.							

Job rankings ▶   Wait graphs by (selected jobs only) ▶   Dispatched CPU

Record Quick View   Wait graphs by (all) ▶   CPU queueing

Copy   Other graphs (selected jobs only) ▶   Seizes

Find   Other graphs (all) ▶   Journal

SQL

Job signatures ranked by Dispatched CPU

QZDASOINIT / QUSER / 796851
QZDASOINIT / QUSER / 796943
QZDASOINIT / QUSER / 797292
QZDASOINIT / QUSER / 796029
QZDASOINIT / QUSER / 797291
QZDASOINIT / QUSER / 796850
QZDASOINIT / QUSER / 796387
QZDASOINIT / QUSER / 796388
QZDASOINIT / QUSER / 797302
QZDASOINIT / QUSER / 797301
QZDASOINIT / QUSER / 797777
QZDASOINIT / QUSER / 796388

X-axis

Job nam

Primary

Dispatc
CPU que
Disk ot
Idle/wa
Seizes
Object
Gate (s
Journal

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34

Jun-Oct 2010 – SQL Tables: CSI Jobs Totals

Job rankings by Dispatched CPU
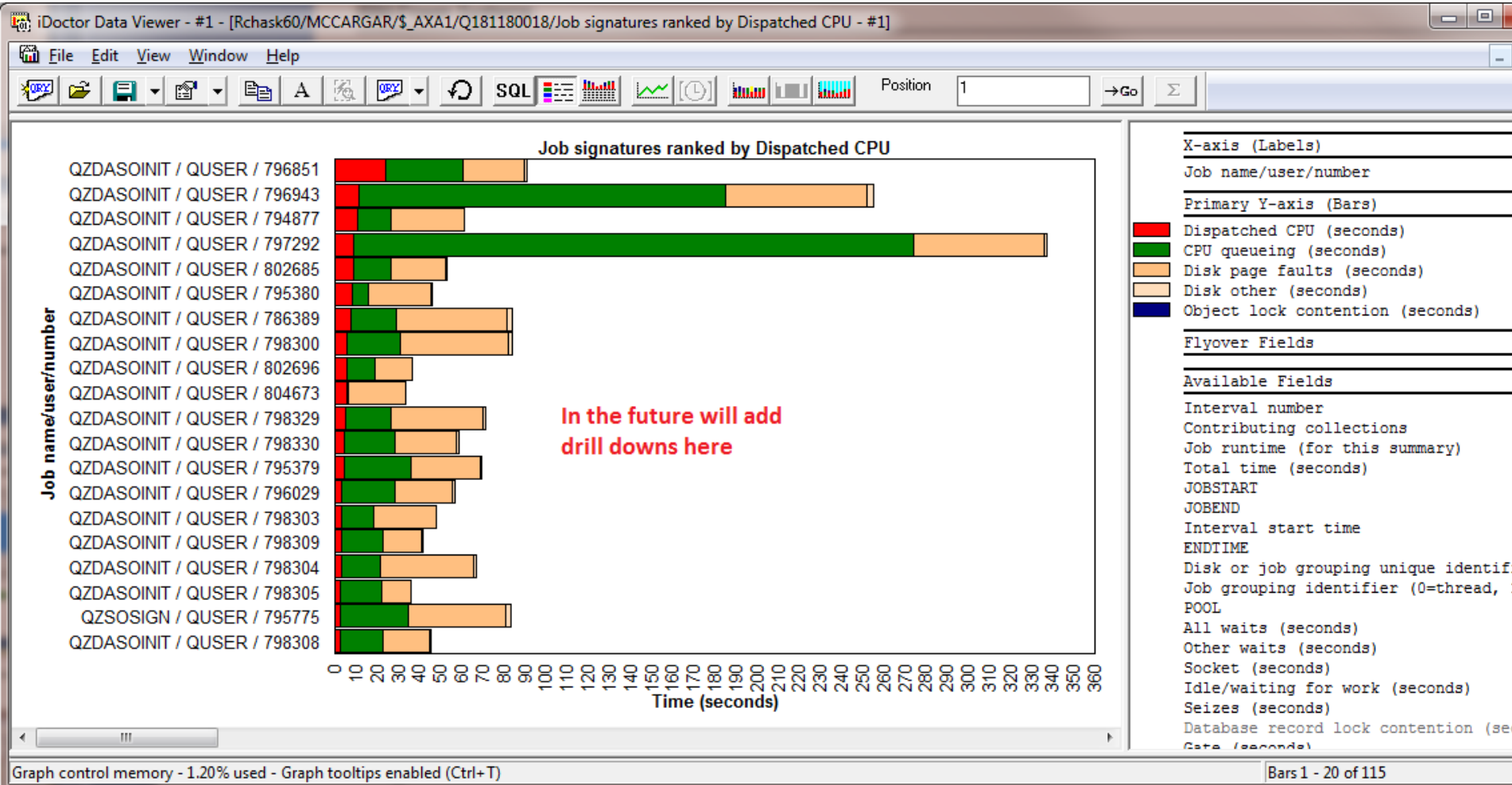
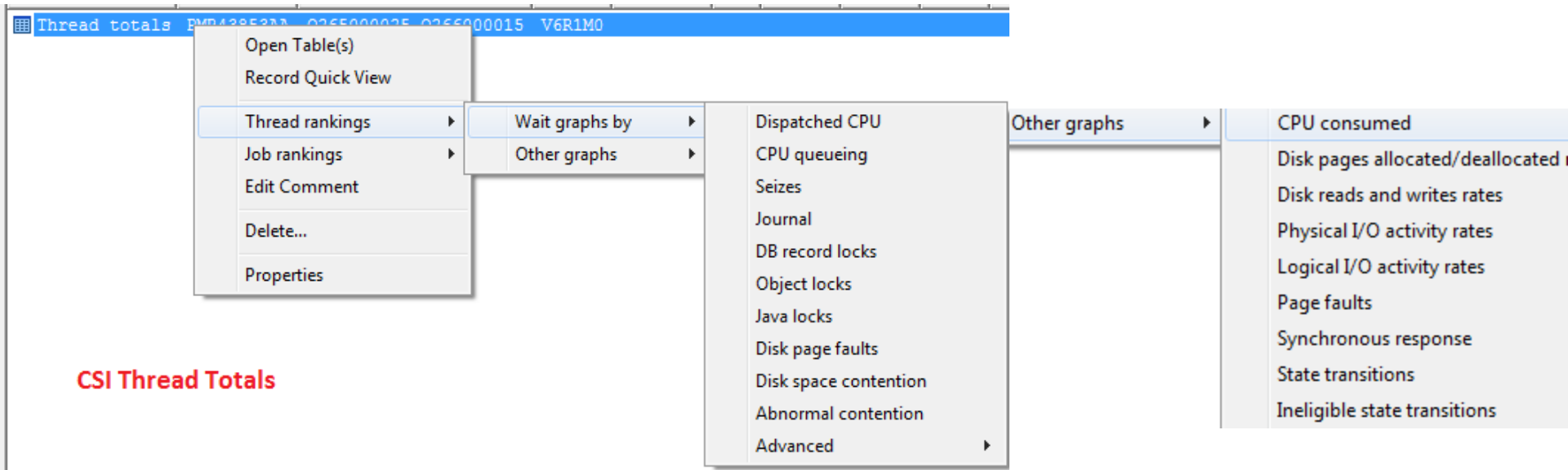**Power your planet.**

Jun-Oct 2010 – SQL Tables: CSI Thread Totals or Thread Totals by Collection

Created by Create Job Summary function.

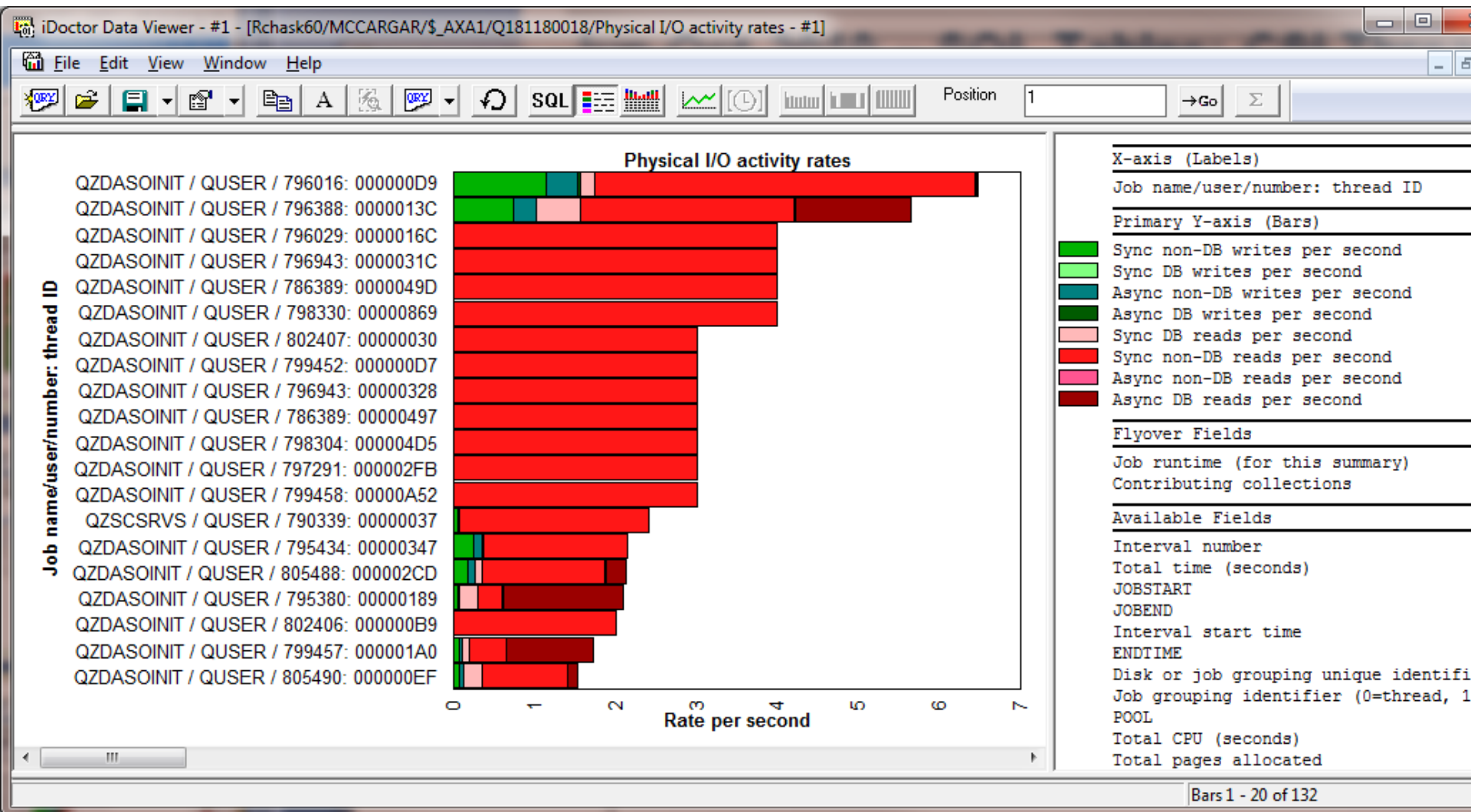Provides Thread and Job rankings graphs for wait buckets, CPU, I/Os, and more

CSI Thread Totals

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Jun-Oct 2010 – SQL Tables: CSI Thread Totals or Thread Totals by Collection

Thread rankings showing PDIO rates

Jun-Oct 2010 – SQL Tables: CSI External Storage Cache Statistics

New at 6.1+ from file QAPMXSTGD

Provides graphs over time, by disk unit and ASP over DS6000/DS8000 external storage.

The by time interval, by disk unit options will prompt you for desired ASP or give comparison option to compare 1 ASP with another.

Description	Library	Collection(s)	VRM	Comments	SQL Table Name	Change date
CSI - External storage X32 by unit	XSTGD	Q014000003	V7R1M0		Qaidrcsext_units_q014000003	2010-10-05-08

Open Table(s) ▶
Edit ▶

External storage cache statistics ▶
Delete
Properties

By time interval ▶
By disk unit ▶
By ASP ▶

Average DS to IBM i latency for ASP <<DSASP>>
IO counts totals for ASP <<DSASP>>
IO size totals for ASP <<DSASP>>
IO size averages for ASP <<DSASP>>
IO size rates with cache hits for ASP <<DSASP>>
IO rates totals for ASP <<DSASP>>
IO rates totals with cache hits for ASP <<DSASP>>
Cache operation rates for ASP <<DSASP>>
NVS space allocation rates for ASP <<DSASP>>
Record mode read rates for ASP <<DSASP>>

CSI External Storage Cache Statistics

Jun-Oct 2010 – SQL Tables: CSI External Storage Cache Statistics

Example graph

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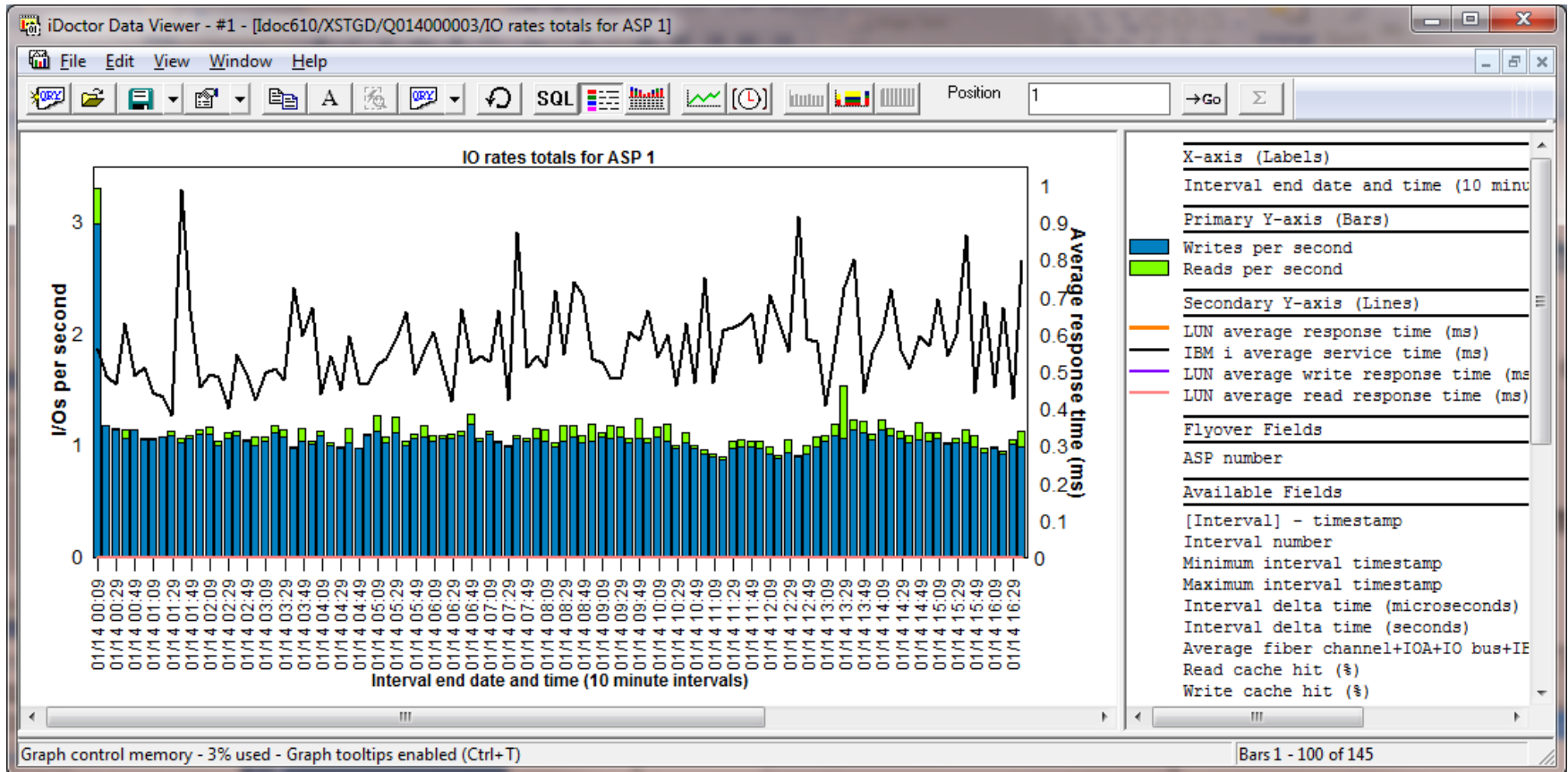
Jun-Oct 2010 – SQL Tables: CSI External Storage Links

This data is new at 7.1 from file QAPMXSTGV.
Contains fiber channel links.
Created by the External storage links and ranks analysis.

CSI External Storage Links

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Jun-Oct 2010 – SQL Tables: CSI External Storage Links

Example graph

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Jun-Oct 2010 – SQL Tables: CSI External Storage Ranks

This data is new at 7.1 from file QAPMXSTGV.
Contains ranks (similar to an ASP).
Created by the External storage links and ranks analysis.

CSI External Storage Ranks

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Jun-Oct 2010 – SQL Tables: CSI External Storage Ranks

This data is new at 7.1 from file QAPMXSTGV.
Contains ranks (similar to an ASP).
Created by the External storage links and ranks analysis.

Jun-Oct 2010 – SQL Tables: JW iDoctor Collection Summary

Graphs are filtered if they were used to create the SQL table.

Description	Library	Collection(s)	VRM	Comments	Job	Current user	Subs...	Start	End	SQL Table Name
Interval summary file	CRAVENS1	Q077115116	V6R1M0	QZDA jobs only	QZDA/*/*					Qaidrjwsum_q077115116_qzda_
Interval summary file	CRAVENS1	Q077115116	V6R1M0							Qaidrjwsum_q077115116

Open Table(s)
Record Quick View

Wait graphs ▸
CPU graphs ▸
I/O graphs ▸
IFS graphs ▸
Other graphs ▸
Edit Comment

Delete...

Properties

Collection overview time signature
Situational analysis overview time signature
Collection overview with dispatched CPU time signature
Collection overview with faulting breakdown time signature
Current wait duration time signature
Seizes and locks time signature
Contention time signature
Disk time signature
Classic JVM time signature
Communications time signature
By thread
Collection totals

JW iDoctor Interval Summary

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Jun-Oct 2010 – SQL Tables: JW Long Transactions

This table contains 1 record per job/task for every time period > 1 interval that occurred where no 'idle' wait buckets were found. <u>These are NOT normal 5250 transactions!</u>

Created by the Long Transactions Analysis.

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Jun-Oct 2010 – SQL Tables: PEX Stats Summary for All Jobs

After opening one of the Stats Summary SQL tables, the following option is available (only works if Stats Hier) was captured.

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Jun-Oct 2010 – SQL Tables: PEX Stats Summary for All Jobs

The drill down report from the previous slide does not allow further drill downs (where pgm used, etc). For that, use the Stats hier for selected job analysis.

Jun-Oct 2010 – SQL Tables: PEX Stats hier for selected job

After opening one of the Stats hier for selected job SQL tables, the following "stats hier classic" options are available:

Selected program -> Where program XYZ used (up to 5 call levels)
Selected program -> Where program XYZ used (up to 10 call levels)

Selected procedure -> Where procedure XYZ used (up to 5 call levels)
Selected procedure -> Where procedure XYZ used (up to 10 call levels)

Selected MI instruction -> Where MI instruction XYZ used (up to 5 call levels)
Selected MI instruction -> Where MI instruction XYZ used (up to 10 call levels)

Call Level (CALLLVL)	Partial Count Status (PCSTS)	Library Name (LIBNAM)	Program Name (PGMNAM)	MI Complex Instruction (MICPXNM)	Module Name (MODNAM)	Procedure Name (PRCNAM)	Times Called (CALLCOUNT)	Calls Made (CALLMADE)	Calls to MI Complex Inst (CALLMICPX)	Inline Elapsed us (INELPUS)	Inline CPU us (INCPUUS)	Inline Percent CPU (INPCPUUS)	Inline us per C (INCP
0	Y	QSYS	QZRCSRVS		QZRCSRVS	_C_pep	0	1	0	.9080		0	0
1	Y	QSYS	QZRCSRVS		QZRCSRVS	main	0	661	0	686.4640	53.7070	.0342	
2	Y	QSYS	QZRCSRVS		QZRCRMTC	RunCommand	20	85	0	243.4250	59.9970	.0382	2
3	Y	QSYS	QCAPCMD		QCAPCMD	QCAPCMD	20	88	152	617.0360	199.4640	.1269	9
4	Y	QIDRPA	QIDRPASTCP		QIDRPASTCP	QIDRPASTCP	0	13	2				
5	N			*MATQAT			1						
5	N			*STPDCTRD			1						
5	N			*SETACST			1	27.4920	6.4050	.0041	6		
5	N	QSYS	QCLCLCPR		QCLCLCPR	QCLCLCPR	1	46.7450	19.3150	.0123	19		
6	N			*MATPTR			1	3.0420	.6390	.0004			
6	N			*RSLVSP			2	12.3090	5.7730	.0037	2		
5	N	QSYS	QSNDDTAQ		QSNDDTAQ	QSNDDTAQ	1	14.4290	2.9950	.0019	2		

Menu:
- Selected program ▶ — Where program QIDRPASTCP used (up to 5 call leve / Where program QIDRPASTCP used (up to 10 call lev
- Selected procedure ▶
- Record Quick View
- Copy
- Find...

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Jun-Oct 2010 – Create Job Summary

Create Job Summary interface changes:

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Jun-Oct 2010 – Create Job Summary

Depending on the desired outputs, 1 table is created into the following 4 SQL table folders:

Analysis	Description
Job Totals	Create Job Summary function output grouped by job
Thread Totals	Create Job Summary function output grouped by thread
Job Totals by Collection	Create Job Summary function output grouped by job and collection
Thread Totals by Collection	Create Job Summary function output grouped by thread and collection

Drill down options from the SQL tables was covered in previous slides.

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Jun-Oct 2010 – Create Job Summary - Future

More testing needed for CSI comparison of collections of multiple releases. In JW however, you can run create job summary with multiple release collections if desired with client 807.

Add merge SQL tables support.

Add multiple (generic) job selection and give user control of wildcards. QZD* vs *QZD*

Add pool selection.

Summarize at higher groupings like generic job or pool and/or entire collection.

Anything else?

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Jun-Oct 2010 – Visual Studio redistributable package

This was previously included in the install (32-bit only) and installed automatically but now first-time users will need to pick the appropriate version of Windows they have and install it manually.

This was changed to better support 64-bit users and avoiding increasing download sizes too much.

The following is displayed on all download pages on the website 5.4+. Many users have missed it ;)

New User GUI Installation Requirement

Before installing the iDoctor GUI for the first time you are required to install the Microsoft Visual Studio Redistributable package from one of the links below depending on the type of CPU and OS level you have.   How do I tell if my computer is running 32-bit or 64-bit Windows?

➡ Microsoft Visual C++ 2008 SP1 Redistributable Package (x86, 32-bit)

➡ Microsoft Visual C++ 2008 SP1 Redistributable Package (x64, 64-bit)

➡ Microsoft Visual C++ 2008 SP1 Redistributable Package (ia64, 64-bit Itanium)

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Jun-Oct 2010 – Monitors enhancements

Starting a monitor at 5.4 and higher, will now adjust the definition's ASP limit value to be the same as the one specified on the monitor.
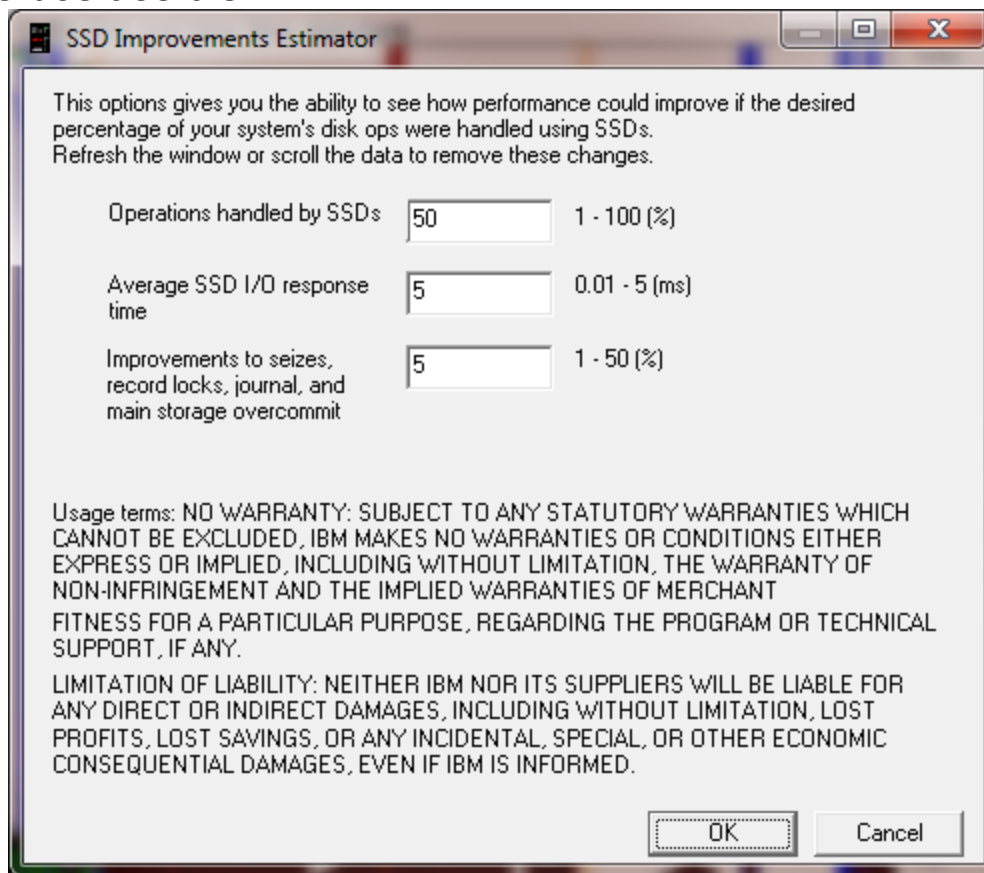
Note: This change actually caused a recent STRJW command failure if lib ASP is not 1 which requires a PTF at 6.1+ so I partially backed this out in 807. Only the system ASP limit is changed at 6.1+. I plan to change this back after PTFs are released and some time has passed.

For 5.3 and 5.4 JW, when starting a monitor the definition will be auto adjusted to make sure it runs at least as long as the collection's duration. Previously a message was shown asking the user to do this.

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Jun-Oct 2010 –Misc: SSD Estimator now External

The SSD Estimator is now available for external use with client 806.

Alters wait bucket graphs in CSI/JW to show possible disk time reductions if SSDs were installed based on % of SSDs, avg SSD I/O response time and estimated improvements to other types of waits besides disk.

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Jun-Oct 2010 –Misc: SSD Estimator Example

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Jun-Oct 2010 –Misc: SSD Estimator Example

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Jun-Oct 2010 – Misc: JW SQL Server mode job info

For JW 6.1 (with PTFs) or 7.1 , the interval details property page now includes the SQL server mode client job if found with the option to drill down and graph the job.

At 6.1 the PTFs needed are:
5761SS1 V6R1M0 SI39406
5761999 V6R1M0 MF51454
5761999 V6R1M1 MF51348

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Jun-Oct 2010 – Misc: PEX PDIO enhancements

PEX SQL-based PDIO has been enhanced in the following ways:

Added new rankings graphs:
1. by segment type
2. by object info (which is object name + object type/seg type)
3. by thread, object info
4. by thread, disk unit
5. by thread, object info, disk unit
6. by full object info: SID (this is object location/object name+ object type/seg type and virtual seg/object address)
7. by IFS path
8. IO adapter
9. IO adapter port

Added support for IFS. IFS path names are now surfaced in the analysis. By object groupings will now include a value IFS which is the total value for all IFS paths. The by IFS path grouping can be used to break out the statistics further.

In order for these options to work, the analysis must be reran.

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Jun-Oct 2010 – Misc: PEX PDIO enhancements

PEX PDIO Rankings Graphs

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Jun-Oct 2010 – Misc: JW System collected on column

C00800 - Job Watcher - Enhancement
Added "system collected on" to list of fields that can be selected/viewed in list of JW collections

Jun-Oct 2010 – Misc: PEX Call Stacks Analysis

C00793 - Pex Analyzer - Enhancement
In PEX 5.4+, added new reports to the call stacks analysis that will show the top programs causing opens and closes.

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Jun-Oct 2010 – Misc: PEX Call Stacks Analysis

C00791 - Pex Analyzer - Enhancement
In PEX, the call stacks analysis now includes the trace back table addresses for each call level in the report. This allows for a new drill down option that lets you graph how many times the selected procedure(s) occurred in the collection over time.

Total call stacks (TOTAL)	Call level (LEVEL)	Program library (PGMLIB)	Program name (PGMNAME)	Module library (MODLIB)	Module name (MODNAME)	Procedure (PROCEDURE)
91479	0				#dbioest	#dbioest
91479	1				#dbioest	#dbioest
91479	2				#dbmatds	#dbmatds
91479	3				#cfmir	#cfmir
91479	4				cfscv0a	syscall_A_portal
91479	5	QSYS	QDBEXDME	QDBEXDME	QDBEXDME	
91479	6	QSYS	QUSRMBRD	QUSRMBRD	QUSRMBRD	
91479	7	MIMIX	LVSRV02	Z294134#	LVMBRD	lvGetMemberDescription0200
91479	8	MIMIX	LVSRV02	Z294134#	LVMBRD	
91479	9	MIMIX	DMAPPLY	Z294134#	DMASOPENF	
91479	10	MIMIX	DMAPPLY	Z294134#	DMAS2111	
91479	11	MIMIX	DMAPPLY	Z294134#	DMAS2111	

Selected procedures ▶ Selected call stack procedure(s) over time
Record Quick View
Copy

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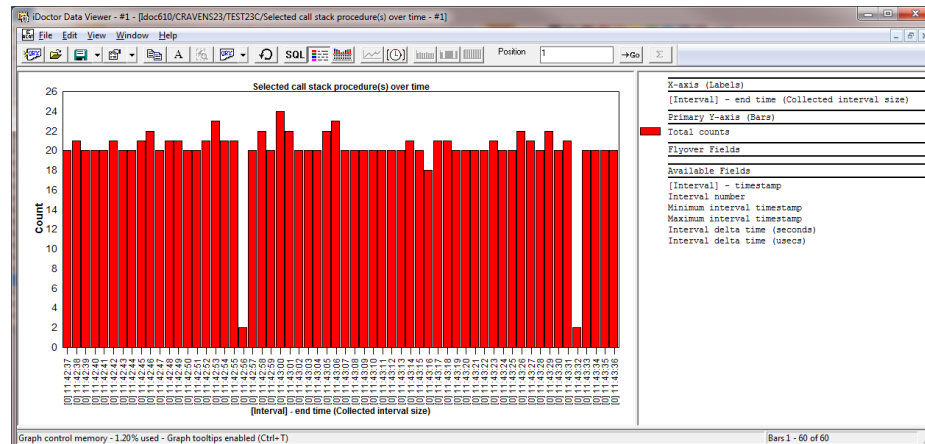
Jun-Oct 2010 – Misc: PEX TPROF Analysis

C00791 - Pex Analyzer - Enhancement
In PEX, the TPROF analysis now includes a tree report to show counts grouped by
system data address register and then procedure name within.