

iDoctor Updates (August 10th 2018 to present)

Ron McCargar iDoctor development IBM i Global Support Center





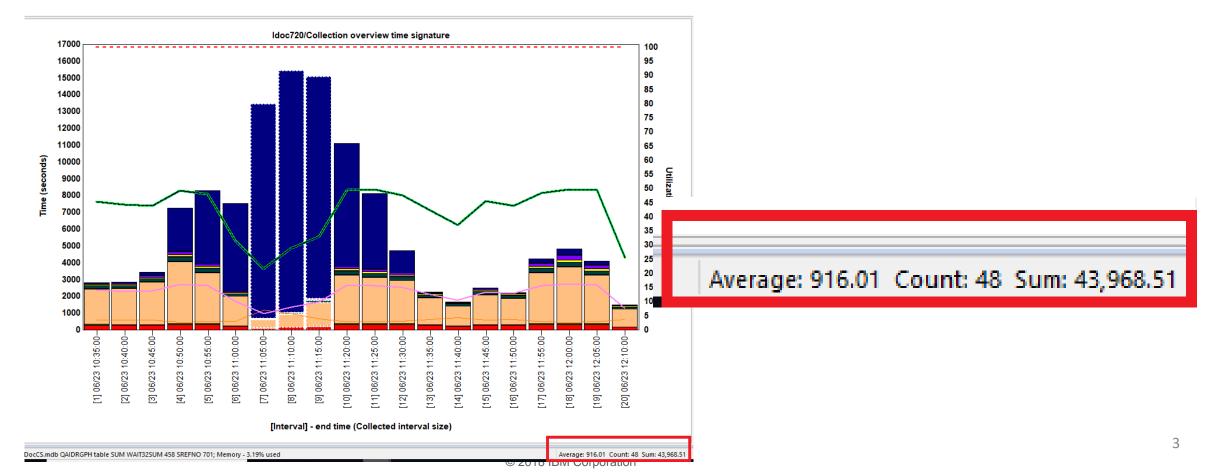
Currently recommended "stable" builds

- IBM internal:
 - Latest client is 1337 (Nov 1st)
 - Latest "stable" client is 1328 (Sept 5th)
- IBM external:
 - Latest client is 1335 (Oct 9th on ftp site only)
 - Latest "stable/announced" client is 1325 (Aug 7th)



Nov 2018 (1337) – Math pane added to status bars (1/2)

• The Main Window and Data Viewer status bars now contains a math pane based on numeric values from the current table or graph selections.





Nov 2018 (1337) – Math pane added to status bars (2/2)

• In tables, works for row selections or block cell selections.

0: Collection Services Investigator	#1 🛛 Graph Search: VRM=720, Collection location on	Idoc720: PEX-Analyzer - #1	
Output file	Description	Records	
III Qaidrcsanl_q175102853	CSI - Situational analysis file		20
Qaidrcsdt2107_q175102853			1
Qaidrcsdt2145_q175102853			0
Qaidrcsgap_q175102853	CSI - Wait bucket gap file		31,113
Qaidrcsgapint_q175102853	GAP file join to JOBMI		31,136
🖽 Qaidrcsisum_q175102853	CSI - Interval Summary		20
Qaidrcsisumtotals_q175102853	CSI - Aggregated Interval Summary		1
Qaidrcstl_q175102853	CSI - Threads/Tasks List		2,837
🖽 Qaidrjwenm	Block point enum descriptions		500
III Qaidrot	Object Type Descriptions		306
III Qaidrst	Segment Type Descriptions		361
III Qapgmdescs			5,179
III Qapmappn	APPN RELATED PERFORMANCE DATA		20
III Qapmbus	BUS PERFORMANCE DATA		0
🗄 Qapmciop	COMMUNICATIONS PROCESSOR PERFORMANCE DATA		0
Qapmconf	SYSTEM CONFIGURATION FILE		70
III Qapmdiop	DISK PROCESSOR PERFORMANCE DATA		0
🖽 Qapmdisk	DISK UNIT PERFORMANCE DATA		100
🖽 Qapmdiskrb	DISK UNIT RESPONSE BUCKET DATA		100
III Qapmdps	DATA PORT SERVICES PERFORMANCE DATA		0
III Qapmeth	ELAN PERFORMANCE DATA		20
III Qapmhdwr	DSPHDWRSC *TYPE2 output file model		0
III Qapmhttpb	HTTP SERVER BASE PERFORMANCE DATA		6
III Qapmhttpd	HTTP SERVER DETAIL PERFORMANCE DATA		60
III Qapmiopd	COMMUNICATIONS PROCESSOR PERFORMANCE DATA		0
III Qapmisum	INTERVAL SUMMARY DATA		20
III Qapmjobmi	JOB MI PERFORMANCE DATA		8,595
III Qapmjobos	JOB OS PERFORMANCE DATA		4,303
III Qapmjobsr	JOB SAVE AND RESTORE DATA		0
11 Oanminhut	IOR WAIT REICKET DEREORMANICE DATA		7.00

:igator\Libraries\Cslabex1\Q175102853\Server-side output files\Qaidrcsgap_q175102853



Nov 2018 (1337) – Changed the "Always show dates..." preference (1/2)

- The Data Viewer preference "Always show dates on time range graph X-axis" has been renamed to "Always show dates on graphs."
- If checked, then the time periods of the collection will always be shown on the graph. For time-based vertical bar graphs, the month/day will be included on the X-axis.
- Added support for this if variable width bars mode is enabled.

Preferences ×	2 \$\begin{bmmatrix} 2 & \begin{bmmatrix} 2 & \ \ \
Misc. Send to IBM PCOMM Power Tips MDI Tabs Report Generator Display Clipboard File PEX Scheduling Confirm SQL Data Viewer	
Always open new reports into an existing Data Viewer (if available) Segregate reports in Data Viewers: Never OBy LPAR names OBy LPAR names	
Maximize reports opened into Data Viewers. Maximize Data Viewers Auto-refresh reports for active collections every N seconds. (5 - 10000)	11:35:33 A 11:35:35 A 11:35:35 A 11:35:35 A 11:35:45 A 11:35 A
Always display (scroll to) new real-time data after an auto-refresh.	Apr 27 Apr 27 Ap

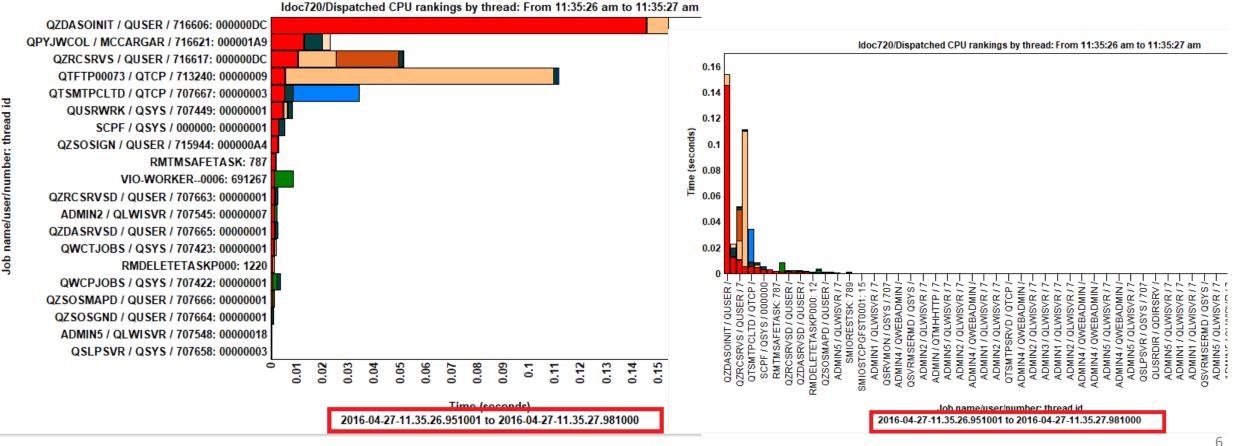
[Interval] - end time (Collected interval size)



Nov 2018 (1337) – Changed the "Always show dates..." preference (2/2)

For ranking graphs the full start/end timestamps are shown at the bottom of the graph. ۲

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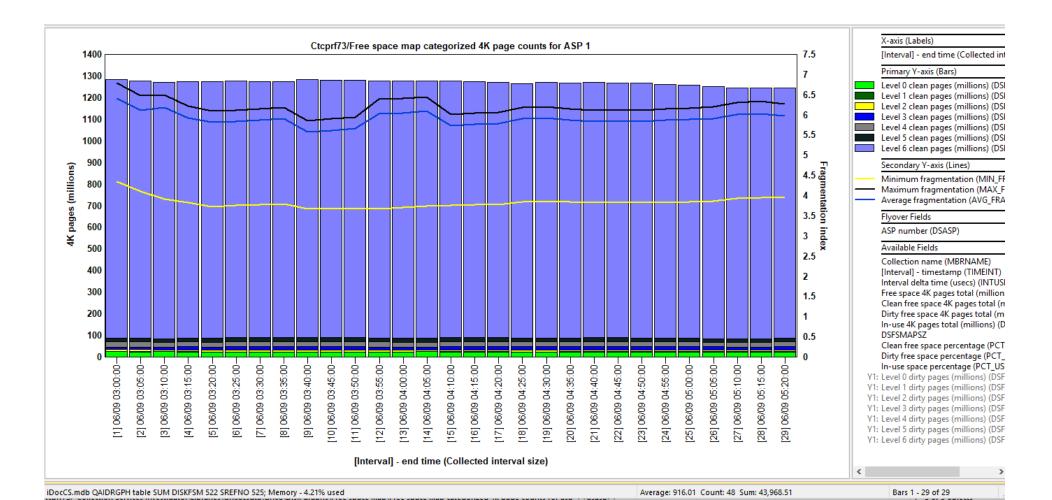




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Nov 2018 (1337) – CSI free space map graph fixes

• Numbers were too big in multipath environments.





Nov 2018 (1337) – Open File/SQL Table Window fixes

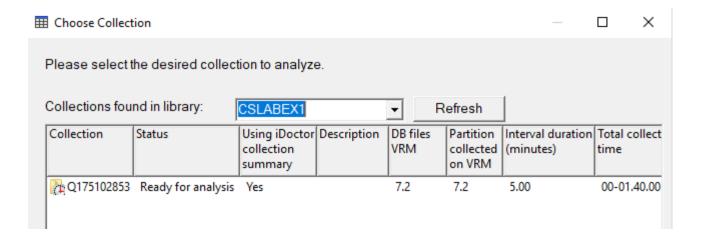
- Couldn't open aliases, logical files or views.
- Double-click an option in the list to open.
- Logical file members now being built.

🖺 Open File/SQL Tal	ble			$ \Box$ \times
System (IBM i):	IDOC720		•	Search
File/table name:	*ALL			
Library name:	mccargar	Membername	*ALL	
Results:	Include: 🔽 SQL table	es 🔽 Physical files	🔽 Logical files 🛛 🔽	Aliases 🔽 Views
File	Table	Library Type	Description	^
QAPYJ00022 QAPYJ00019	QAPYJWTDE_Q306143515 QAPYJWSTK_Q306143515 QAPYJWRUNI_Q306143515 QAPYJWSTS_Q306143515	MCCARGAR ALIA MCCARGAR ALIA MCCARGAR ALIA MCCARGAR ALIA	5	
QAYPETIDXL	QAYPETIDXL	MCCARGAR LF	PEX TRACE INDEX DATA	
QAYPESTATS QAYPESEGI QAYPESTG QAYPEFQCFG QAYPEEVENT QAYPEFTRI QAYPECMN CAYPECMN CAYPECMN CAYPECMN CAYPECMN CAYPECMN	ition Rows Rows overflowed	MCCARGAR LF MCCARGAR PF MCCARGAR PF MCCARGAR PF MCCARGAR PF MCCARGAR PF MCCARGAR PF MCCARGAR PF MCCARGAR PF MCCARGAR PF MCCARGAR PF	PEX TRACE INDEX DATA PEX GENERAL CONFIGURATIO PEX STATISTICS DATA PEX SEGMENT MAPPING DAT. Output file for DSPHDWRSC PEX HARDWARE CONFIGURAT PEX EVENT MAPPING DATA PEX CONFIGURED FILTER INFO PEX COMMUNICATIONS EVEN Data size Variable Column (MBs) length	A TION FREQUENCY DATA) IT DATA
(member) type DBOPEN1 AAAA ASM2		2018-10-10-15.42.11.0000 2018-06-22-08.49.45.0000 2018-06-18-10.01.01.0000	size (MBs) (MBs) 00 00	-



Nov 2018 (1337) – SQL Editor – Change DB collection menu fixes

- In some cases the user would not be prompted to select a different collection or member.
- The user might be incorrectly given a prompt to select a collection from the list without ever being shown the list of collections to choose from.



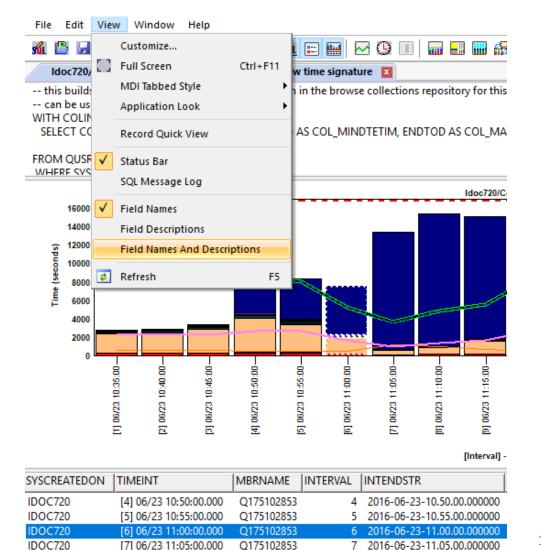


Nov 2018 (1337) – Data Viewer -> View menu fixes

- In the Data Viewer the menu options under View:
 - 1. Field Names
 - 2. Field Descriptions
 - 3. Field Names and Descriptions

were not being shown correctly as far as which one is currently selected (checked).

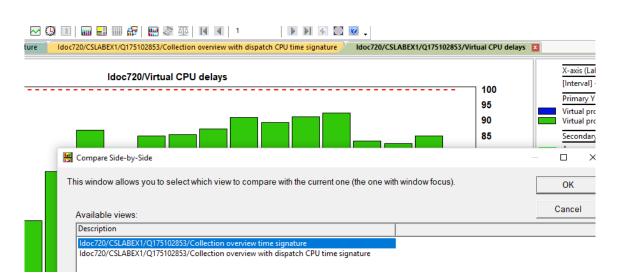
Also the View -> Field Descriptions option did not work correctly and has been fixed.

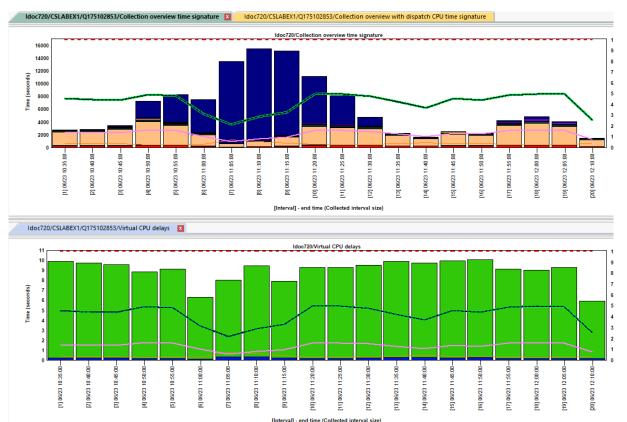




Nov 2018 (1337) – Compare side-by-side window not showing choice

• The Compare side-by-side window did not work properly as far as making the selection appear activated after pressing the OK button.







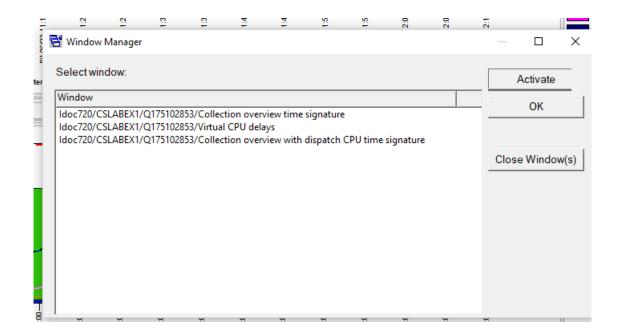
Nov 2018 (1337) – Compare side-by-side companion graph removed

- The side-by-side comparison mode companion graph button has been removed from the Data Viewer toolbar.
- It has not been functional in more than 2 years.



Nov 2018 (1337) – Window manager updates

- Made the following updates to the Window Manager (from the toolbars on Main Window/Data Viewer):
 - 1. Removed the Save button (clicking it would crash the GUI)
 - 2. You can now maximize or resize the window and see long window titles better.
 - 3. Double-click a window in the list will show that window.





Nov 2018 (1337) – User-defined report properties updates

• Fixed some bugs with the user-defined report properties.

1. If looking at a table's query definition on the Details page the location field the SREFNO field was mislabeled as SRENO.

2. Unable to edit the SQL statement on the SQL tab.



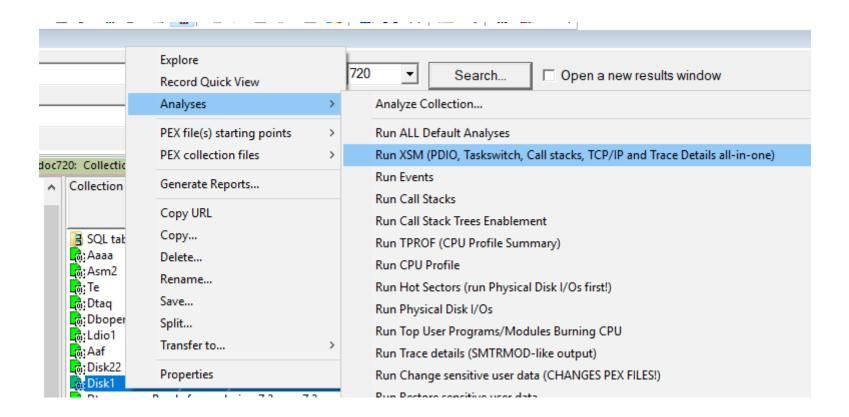
Nov 2018 (1337) – Active monitor deletion problems fixed

- Fixed bugs related to ending and deleting active Job Watcher, Disk Watcher or PEX monitors.
- In many cases the end request would not wait long enough before trying to delete the collection data. Because the collections had not ended yet when the delete request occurred, the data for the active collection did not get deleted.
- **Note:** The latest server builds are required.



Nov 2018 (1337) – PEX – XSM analysis fixed

• The XSM analysis option would fail in PEX Analyzer and has been fixed.





Nov 2018 (1337) – PEX – Monitor/Collection/Definition Wizard hang

 Within any interface that loads a PEX definition; if a ADDPEXDFN JOBS(*NONE) parameter value was encountered this would cause the GUI to hang.



Nov 2018 (1337) – iDoctor did not allow names to contain periods

- The name checking for library names, file names, member names, job names did not allow periods in iDoctor. Example: LIB.NAME
- Since this is a valid name, the checking has been fixed.



Nov 2018 (1337) – Changing a graph's definition could crash

• Fixed a possible crash if changing the graph's definition via the graph definition interface.



Nov 2018 (1337) – Adding a graph filter could crash the GUI

• Adding a filter from the graph legend could crash the GUI and has been fixed.



Nov 2018 (1337) – iDoctor report generator scheduler fixes

• Made the following fixes/updates to the iDoctor Report Generator scheduling function:

1. The schedule task will now always require that the current user be logged in. If this is not done the task would likely fail.

2. If the function runs more than 8 hours it will automatically terminate.

3. If the task is already running when it is scheduled to start then the previous instance will be ended before starting a new instance.



Nov 2018 (1337) – Added new JW situation for locks

- **Problem:** IBM i may be losing track of locks and releasing them at process and thread termination. This can cause additional CPU consumption in the system.
- **Resolution:** Service can enable a setting through SST, **rmsllogleftlocks**, to produce additional LIC logs to determine the source of the issue.



Nov 2018 (1337) – Added new JW situations for QDBSRVXR2 jobs (1/2)

- **Problem:** QDBSRVXR2 job may not be running well
- **Resolution:** Check the wait bucket time signature for the QDBSRVXR2 job(s) on the system.



Nov 2018 (1337) – Added new JW situations for QDBSRVXR2 jobs (2/2)

- **Problem:** QDBSRVXR2 job busy
- Resolution: Look at the stacks and investigate what activity is being done that requires updates to the system catalog file QADBIFLD file, including creating and deleting libraries or files. One method is to search for programs that start QLI*.



Nov 2018 (1337) – JW situation #15 fixed

• The Job Watcher situation, Potentially large number of locks, was checking for the wrong call stack procedure name and has been fixed..



Nov 2018 (1337) – JW situations causing duplicate hits

- Two JW situations were causing duplicate records ("hits") to occur in the situations SQL table:
 - Gate contention in ASM finding free space
 - Contention on user profile



Nov 2018 (1337) – Data Viewer preference changed

 In Preferences -> Data Viewer renamed the option "Always sort disk rankings graphs by avg response times" to "Always sort CSI external storage disk ranking graphs by avg response times".

Always sort CSI external storage disk rankings graphs by avg response times



Nov 2018 (1337) – Preferences -> Job Watcher tab removed

• The last option on this tab was obsolete so the whole tab has been removed.



Oct 2018 (1336) – Updates to the Situations editor

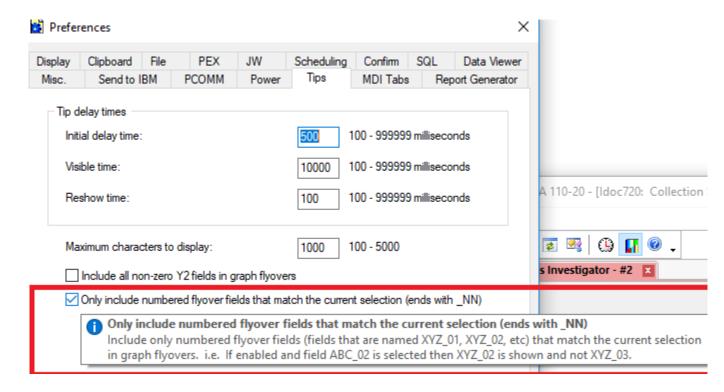
- Made several changes/fixes to the Situations editor:
 - 1. Changing an IBM-defined situation's color did not work.
 - 2. Changing the SQL statement of an IBM defined situation did not show those changes when reloading the interface.
 - 3. The list of situations now has a Changed column that indicates if the situation has changed from the IBM-shipped defaults.
 - 4. The list of situations did not prefilter the list by version of the collection being worked with. So in CSI the SMT context changed situation was listed twice.
 - 5. Adding a new situation didn't work.

Situation: SMT context changed by Ron		/T context changed by Ron			BM-defined			
				C	Color:		Change	
Situations Av	ailable		<u>N</u> ew		<u>E</u> dit	Delete	<u>D</u> efault	
Show Chang	jed ID	Situation		Filter	Filter descrip	tion		
	1	Interactive feature utilization		100	Minimum u	tilization - Defau	lt = 100%	T
\checkmark	2	Write cache overruns		20	Minimum v	rite cache overru	uns percent - De	fa
\checkmark	3	High disk response times		15	Minimum d	isk response time	e - Default = 15	ms
\checkmark	4	High faulting in the machine pool		10	Minimum n	nachine pool fau	lts per second -	De
\checkmark	5	High disk storage consumed		90	Minimum disk space consumed - Defalut 90%			
\checkmark	6	Jobs ineligible to run		3	Minimum t	ransitions to ineli	gible - Default 3	
\checkmark	7	Significant change in pool sizes		15	Minimum pool size delta change of total - Def			ef
\checkmark	8	High native file full opens		5000	Minimum o	pens per second	- Default 5000	
\checkmark	9	Flush all seize detected		60	Minimum a	mount of contin	uous time spent	: in
✓ Yes	10	SMT context changed by Ron						
	11	Temporary storage is more than 7% of the free storage in ASP1 (flag fi	rst interval)					
\checkmark	12	Temporary storage is more than 7% of the free storage in ASP1 (flag a	ll intervals)					



Oct 2018 (1336) – Tips preference for numbered fields

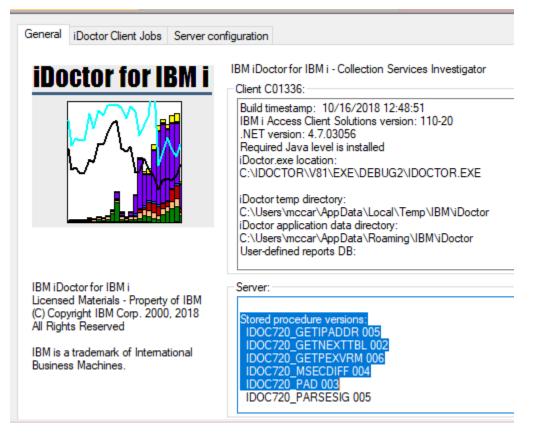
- This preference avoids showing too many flyover fields on the CSI memory pool graphs. Only flyover fields for the same pool are included if this new option is checked.
 - This option is checked by default.





Oct 2018 (1336) – iDoctor -> General -> stored procedure versions

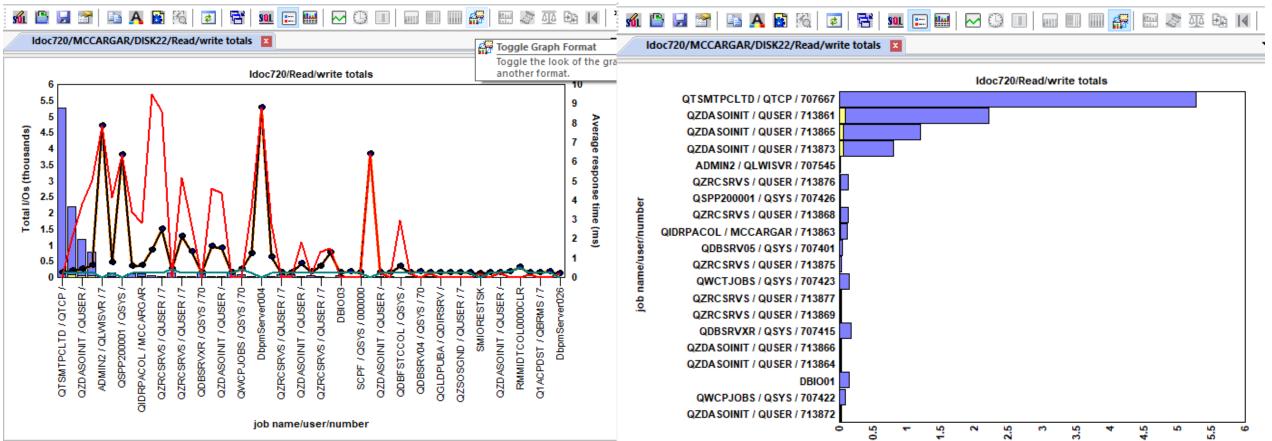
 In the iDoctor application properties -> General tab when connected to an IBM i, the Server section will now include the iDoctor stored procedure versions installed in library QIDRGUI.





Oct 2018 (1336) – Toggle graph format setting now "remembers"

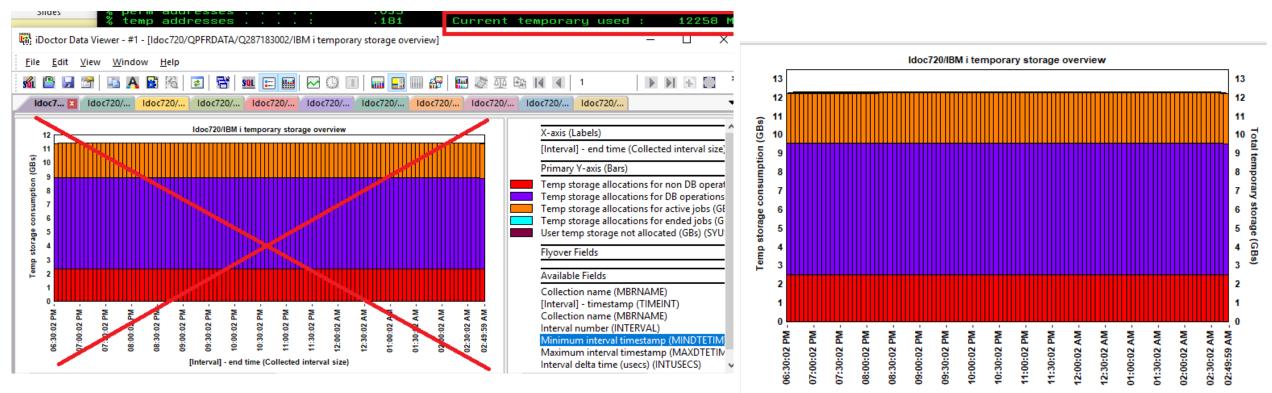
 The toggle graph format option (toolbar button in Data Viewer) will now remember in the windows registry whether or not you've clicked it on a graph for each folder/subfolder in iDoctor.





Oct 2018 (1336) – CSI temp stg graphs incorrect values

• In the Temporary storage graphs folder, the values given on these overview graphs were slightly less than they should have been.

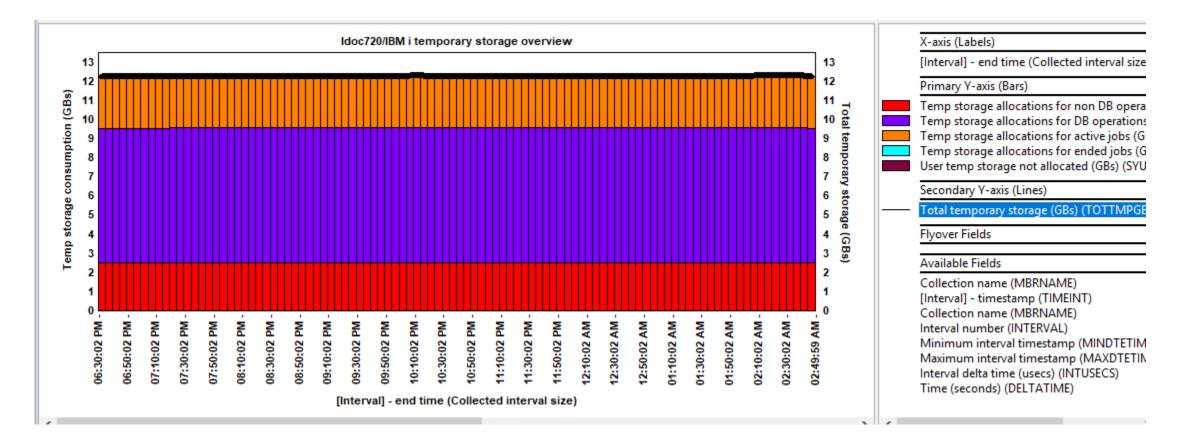


[Interval] - end time (Collected interval size)



Oct 2018 (1336) – CSI temp stg graphs now includes total on Y2

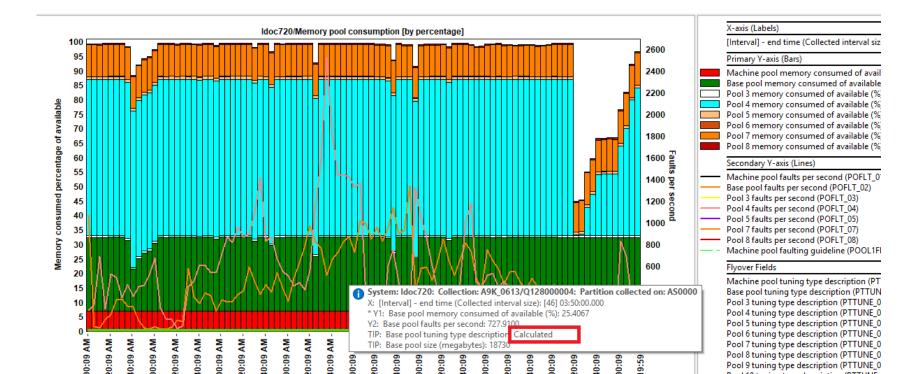
• In the Temporary storage graphs folder, all graphs now includes the total temporary storage added up on the Y2 axis.





Oct 2018 (1336) – CSI Memory pool graph updates

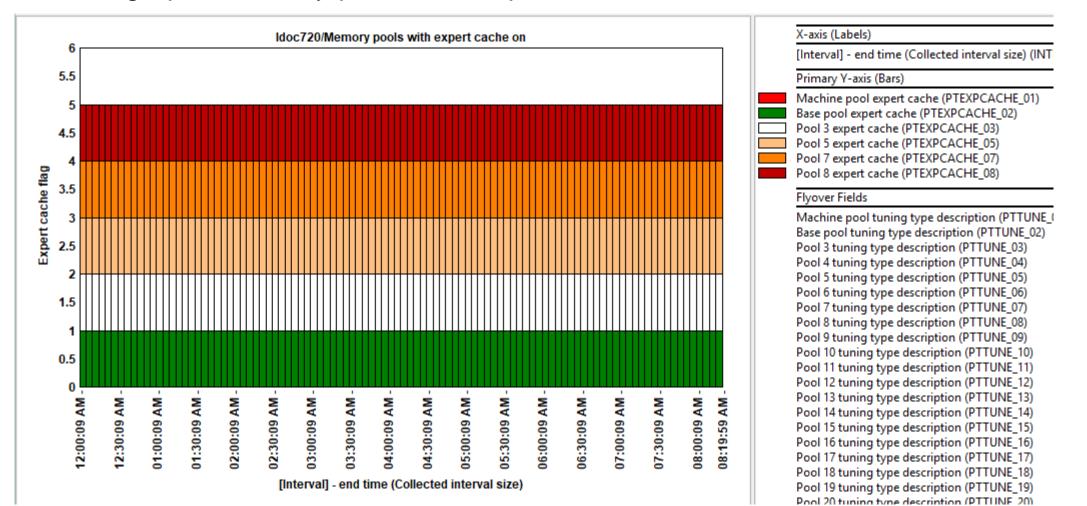
- Added new flyover fields to the CSI memory pool graphs:
 - PTTYPE Memory pool tuning type (0=Fixed, 1=static, 2=dynamic, 3=calculated /expert cache)
 - PTTUNE Memory pool tuning type description (Fixed, Static, Dynamic, Calculated)
 - POSIZ Memory pool size (if not already in the graph)
 - PONAME Memory pool name (if 7.3+)





Oct 2018 (1336) - CSI Memory pool graphs - Expert cache on

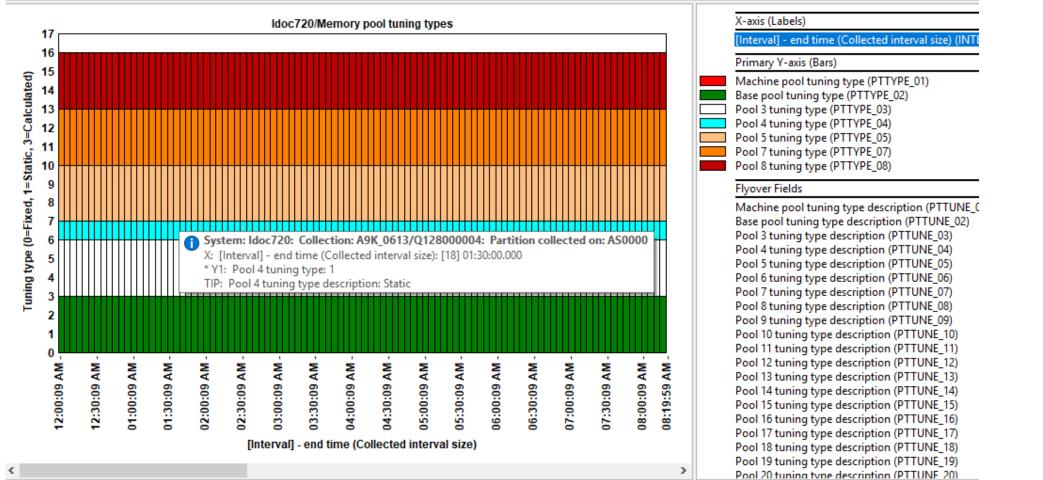
• Added new graph: Memory pools with expert cache on





Oct 2018 (1336) – CSI Memory pool graphs – Memory pool tuning types

- Added new graph: Memory pool tuning types
 - Note: This shows all pools with tuning types except Fixed (which equals 0 and not shown)





Oct 2018 (1336) – CSI SMT context change situation fix

 In CSI the situation SMT context changed had an incorrect calculation when ran against 7.1 collections.

Selec	ted Situat	ion C	Quick Edit Options:						
Sit	tuation:	SN	IT context changed		IE	3M-defined		<u>U</u> pdate	
					C	olor:	(Change	
ituatio	ons Availa	ble:		<u>N</u> ew		<u>E</u> dit	De <u>l</u> ete	<u>D</u> efault	Toggle Selecte
how	Changed	ID	Situation		Filter	Filter descrip	tion		
2		1	Interactive feature utilization		100	Minimum u	itilization - Defaul	t = 100%	
/		2	Write cache overruns		20	Minimum w	vrite cache overru	ins percent - De	fault = 20%
/		3	High disk response times		15	Minimum d	lisk response time	e - Default = 15 i	ms
/		4	High faulting in the machine pool		10	Minimum n	nachine pool faul	ts per second -	Default = 10
/		5	High disk storage consumed		90	Minimum d	lisk space consun	ned - Defalut 90	%
/		6	Jobs ineligible to run		3	Minimum t	ransitions to ineli	gible - Default 3	
/		7	Significant change in pool sizes		15	Minimum p	ool size delta cha	nge of total - D	efault 15%
/		8	High native file full opens		5000	Minimum o	pens per second	- Default 5000	
/		9	Flush all seize detected		60	Minimum a	mount of continu	uous time spent	in the flush all enum
2		10	SMT context changed						
-		11	Temporary storage is more than 7% of the free storage in ASP1 (flag fi	irst interval)					
ŕ		12	Temporary storage is more than 7% of the free storage in ASP1 (flag a	ll intervals)					



Oct 2018 (1335) – CSI list collections in a lib bug

- In CSI the stored procedure to list collections in a library would fail if there were more than 29 collections in the library and one of them had a description on a QAPMCONF member.
 - Work-around: Remove all the member descriptions on file QAPMCONF



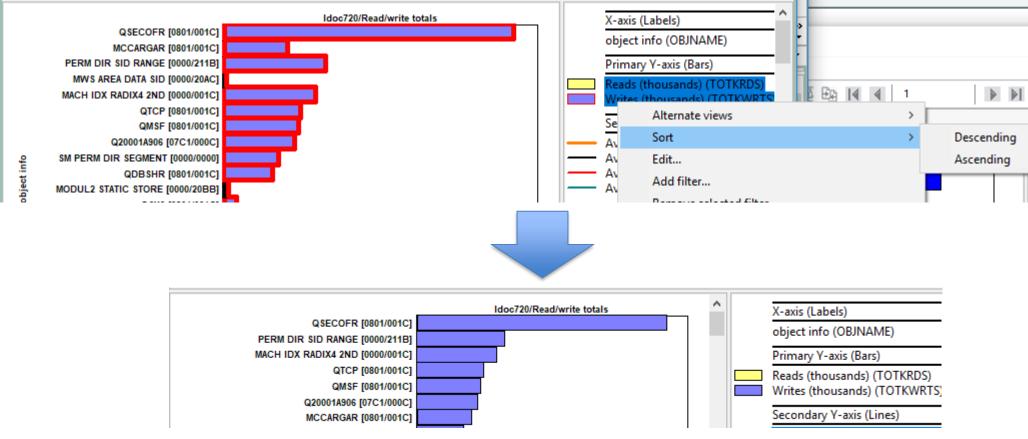
Oct 2018 (1335) – User-defined graphs broken if using an IBM I lib

 User-defined graphs weren't working if using an IBM i library as the user-defined reports database.



Oct 2018 (1334) – Multiple column sort from graph legend

• Sort option from graph legend now supports multiple columns. Use this to reorder the data based on the summation of the columns you have selected.

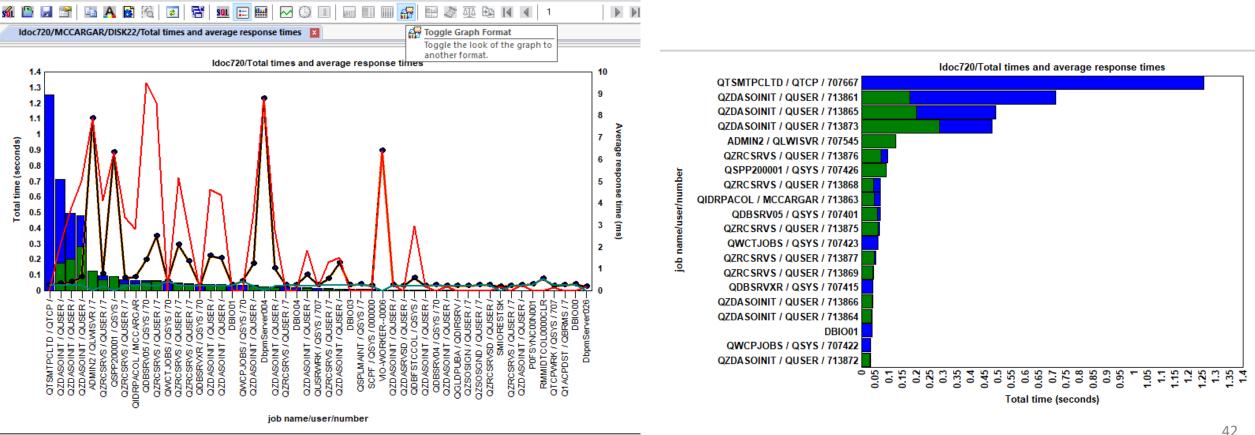




Oct 2018 (1333) – Toggle graph format button

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Button on toolbar can now be used to quickly convert ranking graphs from vertical to ۲ horizontal bars and vice versa.





Oct 2018 (1333) – Clock icon use did not change SQL statement

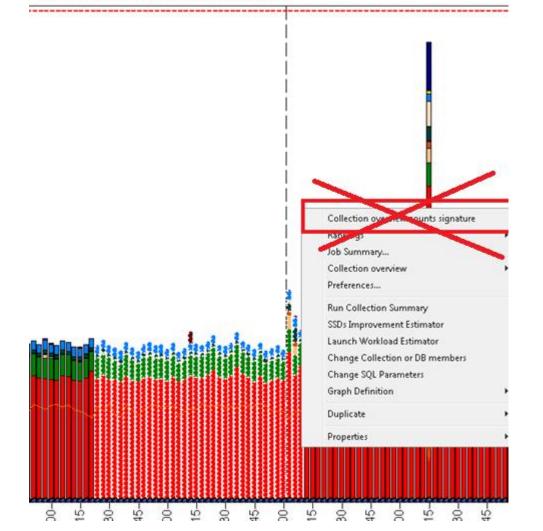
• Using the clock icon on a graph to change the time grouping and then viewing the SQL statement, would not show the correct/updated SQL statement and has been fixed.

🖏 iDoctor Data Viewer - #1 - [Idoc720/QPFRDATA/Q279183002/Collection ov	verview time signature]				
File Edit View Window Help					
M 🕒 🖃 🎦 🗈 🗛 📓 🖗 💌 🖶 🖬 🔝 💷 🖬 🗠 😷 Idoc720/QPFRDATA/Q279183002/Collection overview time signature	Set current as default				
GROUP BY INTNUM	Collected interval size				
) IDLECNT ON IDLECNT.INTNUM = QSY.INTNBR AND IDLECNT.MBRNAME = QSY.MBF	5 minute intervals 10 minute intervals 15 minute intervals				
GROUP BY SUBSTR(CHAR(INTENDSTR), 1, 15) CHAR(INTEGER(INTEGE ENDWITH	30 minute intervals	DOUBLE(5))))			
this part will combine the overview SQL with the colinfo subquery to SELECT 'IDOC720' AS SYSCREATEDON, OVERVIEW.*, X.*, CASE WHEN JW HASDW FROM OVERVIEW LEFT OUTER JOIN (SELECT INTENDSTR AS INTENDSTF	1 hour intervals 4 hour intervals 8 hour intervals 12 hour intervals	ist within each CS interval ASE WHEN PACOL <> '' THEN 90 E			
900 850 800 760	24 hour intervals Monthly intervals All data	10 95 90 85			
750 700 650		80			

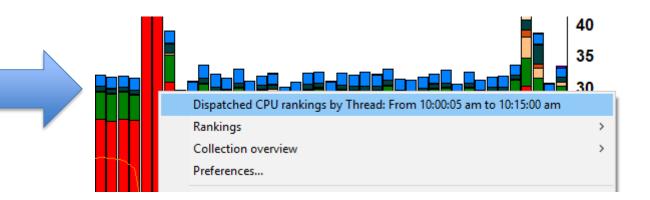


Oct 2018 (1333) – CSI default drill down not showing up

Idoc730/Collection overview time signature



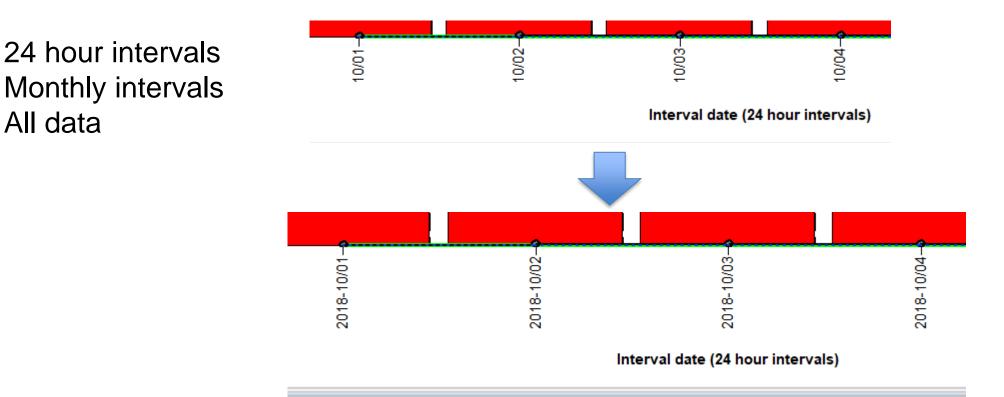
 When drilling down from the Collection overview time signature graph (with 1332), fixed an issue where the default drill down option would appear as the "Collection overview counts signature" graph instead of the Dispatched CPU wait bucket rankings by thread graph.





Oct 2018 (1333) – Time groupings will now show YYYY-MM-DD format

In all iDoctor time-based graphs that support use of the clock icon, the following 3
groupings will now always show the year month and day in the label on the X-axis. (YYYYMM/DD format)





Oct 2018 (1333) – On IBM i the nmon import procedure no longer worked

The nmon import stored procedure on IBM i no longer worked on some systems due to ulletapparent changes to SQL syntax and use of SQL reserved words.

A 10/04/18 16:45:03 Ctcprf72 SQL0199 - Keyword PAGE not expected. Valid token> 10/04/18 16:47:11 Ctcnrf72 10/04/18 16:47:11: File sent successfully (28 seconds) nut C:\nmon\Chadle\test nmon /tmn/test nmon

▼ 10/04/16 10:45:05 Ctcpf172 10/04/16 10:45:05: File sent successfully (22 seconds) - put C:\nmon\Chanle\test.nmon\tmp/test.nmon QSYS/RUNSQL SQL('Call gidrgui/QIDRNMCDB2 ("MCCARGAR", "C001", 0, "/t

Also corrected an issue where the GUI would incorrectly load the 6.1 version instead of the ۲ 7.1 version of the stored procedure on 7.1+ systems.

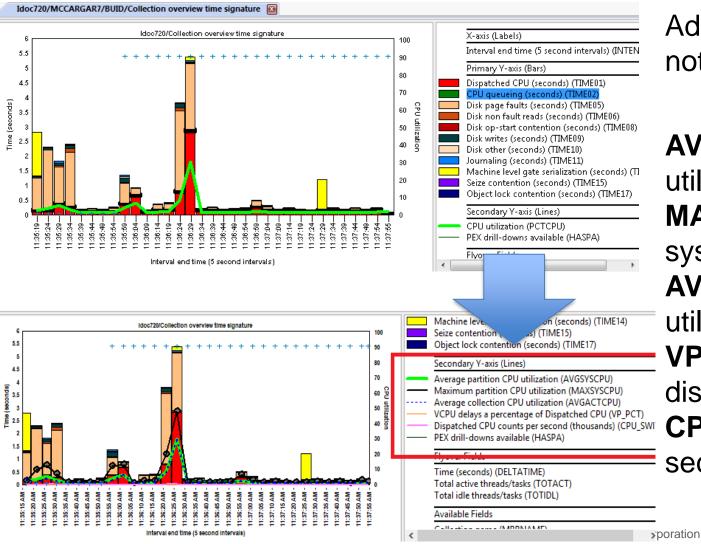


Oct 2018 (1333) – QMGTOOLS install change

• When installing QMGTOOLS, updated the installation so the QMGTOOLS library SAVF is transferred BEFORE clearing the QMGTOOLS library, just in case it fails to FTP.



Oct 2018 (1333) – Y2 field changes in JW graphs



Added extra fields to the Y2 axis whether or not collection summary analysis done.

AVGSYSCPU - average system CPU utilization MAXSYSCPU - maximum interval average

system CPU utilization

AVGACTCPU - average collected CPU

utilzation

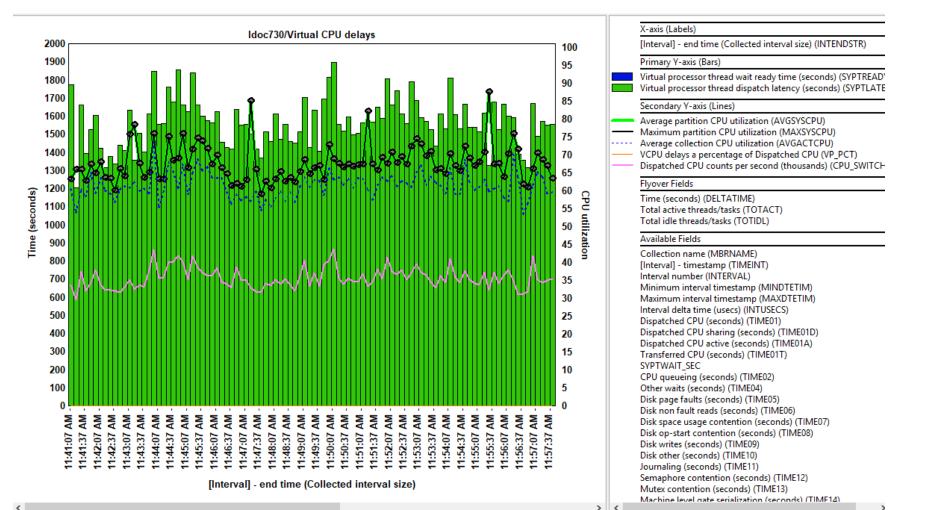
VP_PCT - VCPU delays as a percentage of dispatched CPU

CPU_SWITCH - Dispatched CPU counts per second (thousands)



Oct 2018 (1333) – Added Virtual CPU delay graph to JW

• At 7.1+ added the Virtual CPU delays graph to Job Watcher in the Wait graphs folder.





Oct 2018 (1333) – New google search options

- Added support to do a google search from the following locations in iDoctor:
 - 1. From the graph legend by right-clicking on a field description (and short name).
 - 2. From the table below a graph by right-clicking on a column header. 2 options are given: search on the the field description (and short name) or search on the value last selected in the table in the curent column.
 - 3. From any table in the Data Viewer you can right-click, any column header or cell value and do a search in the same ways as #2 above.



Oct 2018 (1332) – Find option – SQL tab

In the SQL tab of a report definition's properties (either from graph search or user-defined reports), a new Find (text) option has been added to let you find something of interest in the SQL statement.

iraph De	finition									
General	X-axis	Primary Y-axis	Secondary	Y-axis	Flyover	SQL				
Para	meterized	d SQL statement:	Find:	QAPM			Next	Previo	us	
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case END BIGI	e when S) AS INT INT(SUM	ER_AVGUS5, SUM(INTER_TOT ER_AVGUS6, I(INTER_TOTBK I(INTER_TOTBK	TUS))/DOU	BLE(100	0000) AS	INTER_	тотвкт		R_TOT6)	l
	ÈR_TÒT	ITER_TOTBKTU SECDIFF	S) - SUM(IN	TER_TO	TUS))/D	OUBLE(1000000)	AS		
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Сору		Copy URL						OK	Can	cel



Oct 2018 (1332) – Graph search pane fixes

- Opening, closing and reopening the graph search pane would crash the GUI.
- Double-clicking graph search results was not showing the properties correctly.
- Gave the graph search results a proper title for the Pane/Tab including the values used on the search (if any)
- Updated the graph search results for CSI graphs related to TLBIEs, Interrupts and Fragmentation (free space map) to include PTFs needed in the Comments column.



Oct 2018 (1331) – Graph search pane

- Added a graph search function /pane that lets you browse the iDoctor report databases for reports of interest in the IBM i components CSI, Job Watcher and PEX Analyzer.
- This tells you required files, analyses, PTFs and VRMs needed in order for the report to appear and/or show data.

BM iDoctor for IBM	1 i C01332 [C:\IDO	CTOR\V81\EXE\DEBUG2\IDOCTOR.EXE 10/0	3/2018 12:50:22] CA 110-20 - [(Graph Search	: Name cont	- 🗆	\times
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SRAPHS							Д
Report name contains:	interrup	VRM:	~ <u></u>	Search	Open a	new results wind	low
SQL contains:		Include: 🗹 Collecti	on location only 🛛 Graphs	s 🗌 Tabl	es ⊡JW ∣	⊡CSI □PEX	(
IBM i Connections	Graph Search:	Name contains 'interrup', Collection location	n only - #1 🗴				•
Graph search	Location	Report name	Folder	Min Max VRM VRM		Analyses SQRYC required	SQI
	CS Collection	Interrupts counts totals	System graphs -> Interrupts	720 999	QAPMSYSINT	SUM	IN
	CS Collection	Interrupts counts categorized totals	System graphs -> Interrupts	720 999	QAPMSYSINT	SUM	IN
	CS Collection	Interrupts rates totals	System graphs -> Interrupts	720 999	QAPMSYSINT	SUM	IN
	CS Collection	Interrupts rates categorized totals	System graphs -> Interrupts	720 999	QAPMSYSINT	SUM	IN
		Interrupts total time categorized totals	System graphs -> Interrupts	720 999	QAPMSYSINT	SUM	IN
	CS Collection	Interrupts average time categorized totals	System graphs -> Interrupts	720 999	QAPMSYSINT	SUM	IN
	CS Collection	Interrupts total time differences	System graphs -> Interrupts	720 999	QAPMSYSINT	SUM	IN
	<						>
Graph search\Cs collection					4.7.4	7 objects	



Oct 2018 (1331) – Graph search pane (continued)

 When viewing the properties by double-clicking one of the results you can view the graph settings used as well as the parameterized SQL statement for the report.
 Note: The properties interface is read only.

Graph Definition	×	Graph Definition X
General X-axis Primary Y-axis Secondary Y-axis Flyover SQL Graph description: Interrupts counts totals Graph type: Vertical stacked bar Horizontal bar graphs cannot display a secondary Y-axis. Bars per page override: This value (if any) overrides the bars per page value on the Preferences window. Minimum VRM: 720 Maximum VRM: 0 0 = no max	pen	Graph Definition X General X-axis Primary Y-axis Secondary Y-axis Ryover SQL Parameterized SQL statement: Find: QAPM Next Previous END AS INTER_AVGUS1. case when SUM(INTER_TOT2) = 0 THEN 0 ELSE SUM(INTER_TOTUS2)/SUM(INTER_TOT2) Image: Comparison of the co
		INTER_TOTSECDIFF FROM (< <unionstart>> SELECT '<<mbrname>>' AS MBRNAME, PARTITION, INTNUM AS INTNBR, '20' SUBSTR(DTETIM, 1, 2) '' SUBSTR(DTETIM, 3, 2) '' SUBSTR(DTETIM, 5, 2) '' SUBSTR(DTETIM, 7, 2) '' SUBSTR(DTETIM, 9, 2) '' SUBSTR(DTETIM, 5, 2) '' SUBSTR(DTETIM, 7, 2) '' SUBSTR(DTETIM, 9, 2) '' SUBSTR(DTETIM, 11, 2) '.000000' AS INTENDSTR, INTSEC, CASE WHEN SYSCTA = 0 THEN 0 ELSE SYSPTU/DOUBLE(SYSCTA) * 100 END AS PCTTOTCPU, CASE WHEN SYIFTA = 0 THEN 0 ELSE SYIFUS/DOUBLE(SYIFTA) * 100 END AS INTPCTCPU, SYSSPTU / DOUBLE(SYSPTU) AS SCALEDCPU FROM QTEMP/QAPM/SYSTEM <<ubname>> <<mbrname>> INNER JOIN (SELECT GDES)</mbrname></ubname></mbrname></unionstart>
Copy Copy URL OK Ca	ncel	Copy URL OK Cancel



55

Oct 2018 (1331) – JW - Most drill downs via SQL tables removed.

- In JW, removed graph drill down support previously found when right-clicking individual SQL tables except ones related to the Job Summary analysis.
 - These did not work in most cases and in some cases did not make sense to appear. This
 includes subfolders like "Collection Summary, Call Stack Summary, Long Transactions", etc.

IBM i Connections Idoc720: Job Watcher - #1 📧									
🛓 🛄 Libraries		Description	Library	Collection(s)	VRM	Comments	SQL Table Name	Change date	Phy
📮 📲 Aaaaq		🔠 Client and worker interval summary file	AAAAQ	BUID	V7R2M0		Qaidrjwcltsum_buid	2018-09-27-14.21.37.82700	10 Q7
🖨 📴 SQL tables		🗱 Client and worker taskco		DUID	V7R2M0		Qaidrjwclt_buid	2018-09-27-14.21.34.07700	10 Q/
		Open T	able(s)						
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		Favorite	S	•					
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🖶 🌗 Asdfas		Memor			Colle	ction overviev	۔ w with dispatched CP	Il time signature	
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🖶 📲 Bradtest	-	Physica	- X	•			w with faulting break	-	
🖶 📲 Bradtest2	=	Logical	DB	× •	Clien	ts + Workers	overview time signatu	ire	
🖶 🕕 Bsmenges		IFS			Colle	ction overviev	w time signature with	max waits in-progress	
💼 🛄 Dfljw0		Top cor	isumers		Curre	nt wait durat	ion time signature wit	h max waits in-progress	
💼 🌗 Dfljw0b		Other g					e with max disk waits		
🖶 🕒 Ibmjw						-		in-progress	
🛓 💮 🚹 Ibmpex		Open M	erged Tab		Curre	nt wait durat	ion time signature		



Oct 2018 (1331) – NMON – SQLite – CPU utilization graph

 Corrected SQL errors with the nmon graph CPU utilization for <CPU #N> when using SQLite as the analysis database.

LOCAL_SQLITE//AIX6/CPU utilization for CPU01 - #1 LOCAL_SQLITE//AIX6/CPU utilization for CPU01 - #1 QUERY FAILED! UNABLE TO EXECUTE THE FOLLOWING SQL STATEMENT(S): > SELECT '[' || TRIM((MIN(INTNBR))) || '] ' || SUBSTR((MIN(INTENDSTR)), 12, 2) || ': '|| SUBSTR((MIN(I [1] near ''('': syntax error SQLITE_ERROR - SQL error or missing database



Oct 2018 (1331) – NMON – SQLite – Delete collection issues

- Fixed an issue when using nmon and SQLite as the analysis database. Deleting
 collections created using the Merge option would not delete all files in the collection. This
 causes the user to be unable to create new collections (using the merge option) with the
 same name.
- When deleting nmon collections created using SQLite as the analysis database, improved the error handling and process in the remote command status view.

If any file cannot be deleted this will be listed in the results column (and history log). Previously the GUI would indicate the delete was successful when certain files may not have been deleted.



Oct 2018 (1331) – JW – Holder chase broken at 7.4

• In JW, the Holder chase drill down sql syntax no longer worked at the next ibm i release due to changes to SQL syntax. Made a work around to handle this.



Oct 2018 (1331) – CSI – CPU utilization with SMT Context

- Fixes for the CPU utilization with SMT Context graph
 - 1. At 7.1 the calculation for SMT Context was likely incorrect.

2. A 7.2 the extra fields included in the table for total virtual processors and active virtual processors previously would not be able to exceed 32 and has been fixed so the true values are shown.

3. Added total virtual processors and active virtual processors to the graph flyover.



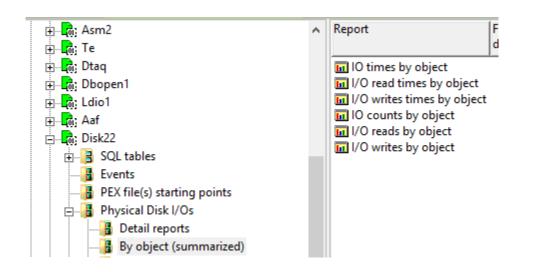
Sept 2018 (1330) – CSI – CPU utilization for <XYZ> graphs

 Fixed the SQL statement for the CSI drill down graphs CPU utilization for <XYZ>. When graphing multiple collections the results were incorrect.



Sept 2018 (1330) – PEX PDIO By objects (summarized) folder back

• By request, the By object (summarized) folder is back and the 6 graphs within it.





Sept 2018 (1330) – PEX PDIO sort option fixed

 In Preferences -> PEX the Sort PDIO ranking graphs option was broken and has been updated to add several new options (or type in your own choice will work too.)

😫 P	🛐 Preferences 💽										
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Í	Data Viewer report options:										
		iort PDIO tim	es rankir	ig graphs by	1/O reads	time instead o	f total I/O tin	ne			
	For s	stats hierarch	ical repo	rts indent the	e call lever	field with:		•			
	Display EVENTDESC field as: PRTPEXRPT abbreviations (SWIN)										

Preferences X										
Misc.	Send to IBM	PCOMM	Power	Tips	Report Generator					
Display	Display Clipboard File P		JW Scheduling Co		Confirm	SQL	Data Viewer			
Sort For s	Viewer report optior PDIO ranking graph tats hierarchical rep lay EVENTDESC fie	ns by: Total Avera orts ind Total Id as: Total Total Total	ge respons I/O time (T read time (TOT_RD_SEC TOT_WRT_S TKRDS)	VGRSP) C)					



Sept 2018 (1329) – JW – Call stack – Program details option

 In JW the call stack window now has an option called "Program details" in the drop down list that lets you see many additional details about the programs found in the call stack.
 Note: This will only work if the "Retrieve program/module details" analysis has been ran on at least one collection in the library.

Idoc720/QJWDA	TA/RUN018/JOB V	VATCHER - CA	LL STACK INFO - #1	nterval Details: System	m Idoc720, Library Qjw	data, Col	ection Run018 - #1 💌						
Record Quick View	Call stack	t waited on 1 V	Vait buckets Physical I/Os			Other et:	tistics Query						
			vaic buckets Thysical 1/0s			Ourier au							
General:						1 = 1	7						
Primary thread:	QTCPWRK/	QSYS / 0247	11: 00000001	Interval: 0									
Job subsystem:		Job statu:	s: DEQW	Job function:		Pool: 2							
Current user profil	e: QSYS	Current st	ate: WAIT	Priority (XPF/LIC):	20/160 Original	LIC: 176							
Current or last wa	it: (342/QMo) Oth	ner mi queue w	ait	Wait duration:	5.750 days								
Object waited on:			EQUEST/QUEUE/NAME	Interval duration:	5.088 seconds								
Holding job or tas	dosh513/7				2016-10-12-09.14.45.28	000							
	None detected			intervarenti.	2010-10-12-03.14.45.20	000							
SQL client job:	None detected	this interval											
Call stack contents:	Program Deta	ails 🖵 St	ack frames: 22										
Call Program	Program N	lodule	Procedure					Pgm		Pgm description	Pgm LICPG	V Pgm LICPGI	M Pgm Pgm
level model								type	attribute		name	level	PTF APAR
R and 110													טון טון
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Sept 2018 (1329) – JW – Retrieve program/module details analysis

 In JW renamed the analysis "Retrieve program/module information" to "Retrieve program/module details". This was done to provide consistency with the new "Program details" option on the JW call stack.

Current	t or last wai	t: (342/QMo) 0	Other mi queue	e wa	it	Wait dur
Object	waited on:		QUSRSYS	//QTCPWRK	/RE	QUEST/QUEUE/NAME	Interval c
Holding	g job or tasł	c ľ	None detec	Interval e			
SQL cli							
Call stack	contents:		Program De	etails 💌	Sta	c: frames: 22	
Call level	Program model	Pro	gram	Module		Procedure	
<mark>格 001</mark> 옪 002	LIC LIC					qutde_block_trace vLongWaitReceive_1	5QuTreeQue



Sept 2018 (1329) – JW – New call stack reports options

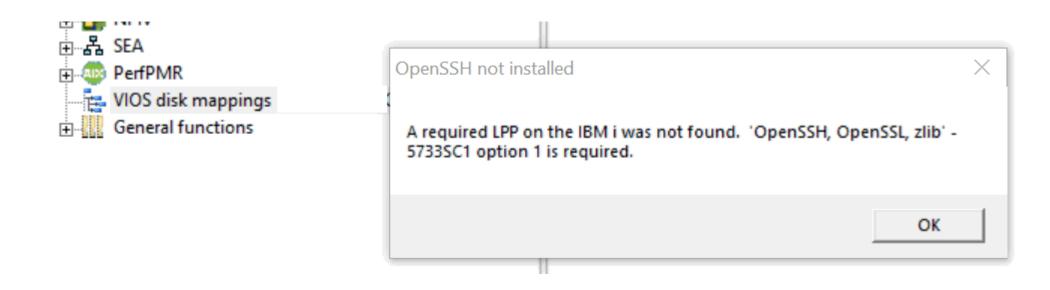
- When drilling down from a call stack on a single entry, added two new options:
 - Program details
 - Module details

Note: This provides additional information about the program or module selected in the call stack.



Sept 2018 (1329) – Power Connections – Create Disk Mapping Check

 When running the Create Disk Mapping function the check for OpenSSH has changed so it should now work with any version installed on the IBM i. Previously it would fail if the version of OpenSSH installed did not match the version of IBM i.





Sept 2018 (1329) – Power Connections – Create Disk Mapping Authentication Failure

 Fixed a timeout issue with the SSH connection used by MkAuthKeys.jar. This is part of the Create Disk Mapping function and would cause the user to think their user/password was incorrect when this wasn't true. The log provided clues to the true reason for the failure.

java.net.SocketTimeoutException: Read timed out java.net.SocketTimeoutException: Read timed out at java.net.SocketInputStream.socketRead0(Native Method) at java.net.SocketInputStream.socketRead(Unknown Source) at java.net.SocketInputStream.read(Unknown Source) at java.net.SocketInputStream.read(Unknown Source) at trans.Transport.readPacket(Transport.java:290) at trans.Transport.read(Transport.java:154) at trans.Transport.read(Transport.java:134) at ssh.Connection.authenticateUser(Connection.java:606) at ssh.Connection.



Sept 2018 (1328) – CSI – Firmware truncated in Collection properties

 In CSI the firmware level in the System tab was truncated to 7 characters when it should have been 9.

🖥 IBM iDoctor for IBM i C01325 - [C:\PROGRAM FIL	ES (X86)\IBM\IDOCTOR\IDOCTO	R.EXE 08/07/2018 14:55:24] CA 710-SI66062 - [CSI	Cc	
File Edit View IBM i Window Help				
IBM i Connections Idoc730: Collection Sen		👪 [] 👫 🙋 🗠 💮 🚺 @ 🗸 tion 'QPFRDATA/Q244180002' Properties * Id 🖻		
General System Pools Disk units Wait Bucket	ts Situations			
System information at the time of collection:				
Description	Value			
System name	IDOC730			
Version	V7R3M0			
Type Model	8231 E2B	IBM i Connections	Idoc730: Collection Services Investigator - #1	CSI Collection 'QPFRDATA/Q242180002' Properties - Idoc73
Serial number Firmware	06-6437R AL730_1	General System Pools	Disk units Wait Buckets Situations	
Allow perf collection for other LPARs Processor feature code	0 539F	System information at the	e time of collection:	
Processor feature	8359	Description	Value	
		System name	IDOC730	
		Version	V7R3M0	
		Туре	8231	
		Model Social number	E2B	
		Serial number	06-6437R	

Allow perf collection for other LPARs

irmware

AL730_157

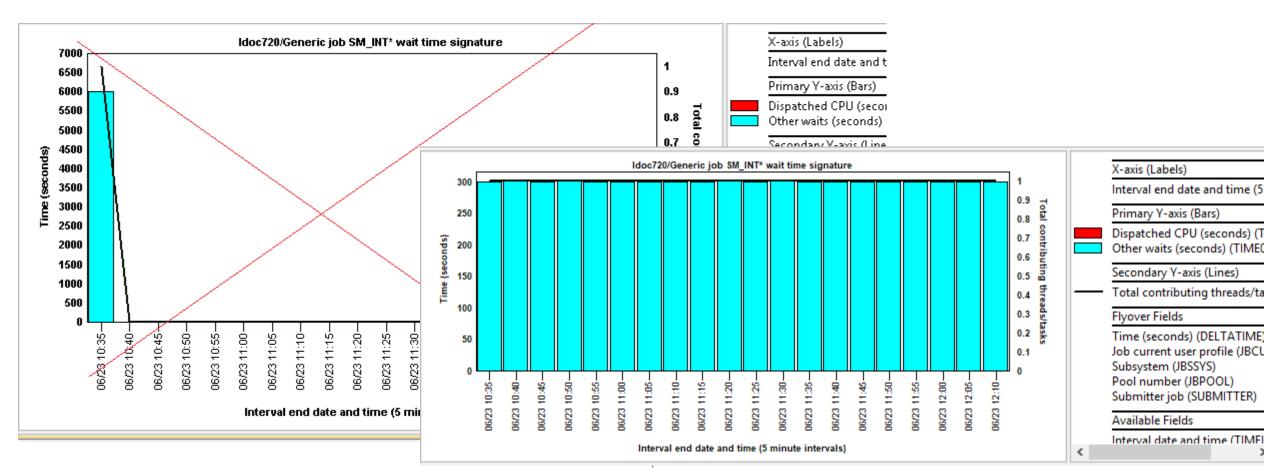
0

COOP



August 2018 (1327) – CSI – Generic job X wait time signature bad data

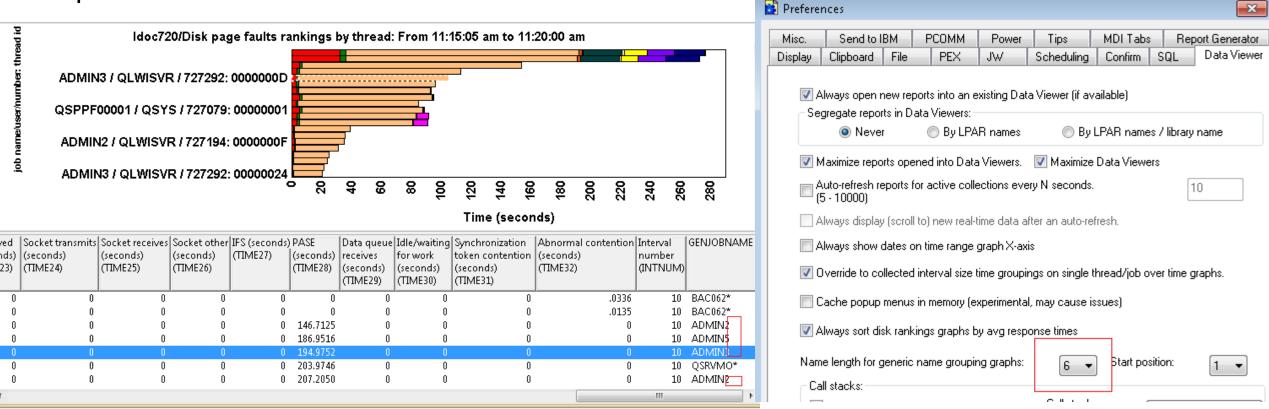
 In CSI the wait bucket times for the graph Generic job <XYZ> wait time signature were being calculated incorrectly for periods where the jobs were idle and has been fixed.





August 2018 (1327) – CSI – Generic job drill downs broken

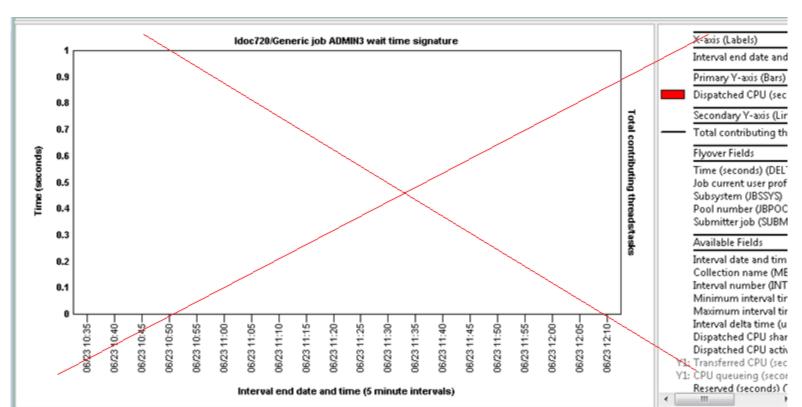
 The Generic job drill down graphs would fail to produce any data (in some cases) because the previous SQL statement value for field GENJOBNAME did not contain a '*' at the end of the name if the job name length was the same as the generic job name length preference on the Data Viewer tab.





August 2018 (1327) – CSI – Generic job drill downs broken (page 2)

 The Generic job drill down graphs would fail to produce any data (in some cases) because the previous SQL statement value for field GENJOBNAME did not contain a '*' at the end of the name if the job name length was the same as the generic job name length preference on the Data Viewer tab.





August 2018 (1327) – CSI – Underlines in job names breaking drill downs

 In CSI the generic job for selected thread drill down graphs would return incorrect data if the generic job name selected contains underlines (such as SM_IN)

This fix causes the underlines to be treated correctly which have special meaning in SQL LIKE statements



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August 2018 (1327) – CSI – Collection Search underline support

• If the search value contains an underline '_', the search results for job, subsystem or current user did not handle it correctly. More results would be returned than desired.

Search criteria:				-Search criteri	a:						
Job or task name contains:	SM_		Browse	Job or tas starts with:		SM_				~	Browse
	_	_	Remove	Starts with			[Starts v	vith search		Remove
	V	Include system tasks					[✓ Include	e system tas	sks	
Idoc720/CSLABEX1/Q	175102853/Job or task name sear	ch - #1 🛐		Idoc720)/CSLABEX1/O	175102853	/Job or task name se	arch - #1	Idoc72		
name (OBJNAME)	5	grouping			4			4			
(MBRNAME)		Value		Collection	iDoctor		iDoctor	Interval	Interval		
	/	(OBJVALUE)		name (MBRNAME)	grouping		grouping value	number (INTNU	date time		
Q175102853 AM-ANSMG		000000000000000000000000000000000000000		(IVIDICIVAIVIE)	(OBJNAME)		(OBJVALUE)		(DTETIM)		
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-	/ BSMENGES / 729239: 0000002A										
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Q175102853 BAC0622AD	/ BSMENGES / 729222: 00008004	00000000000Et									
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0175103053 D&C0633&D	(DOMARNICES (700000, 0000000C)	00000000000000	⊎ 2010 ID								



August 2018 (1327) – JW – Collection Search underline support

Search type:

 If the search value contains an underline '_', the search results for job, subsystem, current user, call stack (pgm, module, procedure), sql statement, wait object name or J9 call stack procedure did not handle it correctly. More results would be returned than desired.

						Garcinty		Job or	task name	N				-		
							or task name	contair		<u></u>		Starts w	/ith search	Brows		
						⊖ Subs	ystem						system tasks	<u>M</u> enno	ve	
	ı						1		I							
ldoc72	0/BSMENGES	/RUN1/Collection overview t	ime signatı	ure Ido	c720/BSMENGES/RUN1/Job c	or task name	search - #1 🛛 🗙									
~	name	Job name/user/number: thread ID	Interval number (INTNU	number	Time of day at ending snapshot start	(TRESERV	Task count (uniquel) identifies a task/thread)	interval time	at ending	Microsecs since IPL at ending snapshot end	Thread ID	Process initial thread task count	Job/task			Curre user profile
,	((JTTHREAD)			(STARTOD)		(TASKCOUNT)						(TDEJOBNAME)		HRDSTATUS)	
BSMENGES	RUN1	SMASPFSCLEAN_001: 852	2,481	2,481	2012-11-12-01.18.12.382000		852	1,034,709	1,709,974,083,397	1,709,974,088,356		0	SMASPFSCLEAN 001 SMAS	PFSCLEAN	001	

Search criteria:



August 2018 (1327) – CSI/JW – Collection Search "Starts with" option

• Added a "Starts with search" checkbox (default is checked) that indicates if the search value should apply to the beginning of data being searched or contained anywhere.

强 Collection Search - Idoc720

Collection Search - Idoc720	data of interest to you	I based on the search type	and criteria specified.				
This option allows you to quickly fi	nd the data of interest to you l	based on the search type	and criteria specified.			Tablistanda	00
Data to search:						Total intervals:	20
Collection(s): Q17510285	3	Total intervals:	20			Starting interval:	1
Library: CSLABEX1		Starting interval:	1		00.00000	Ending interval:	20
Start time: 2016-06-23	10.35.00.000000	Ending interval:	20		00.000000		
End time: 2016-06-23-	12.10.00.000000				arch criteria:		
Search type:	Search criteria:				Job or task name contains:	SM_	✓ Starts with search
Job or task name	Job or task name starts with:	SM_	~	Browse			
OSubsystem			Starts with search	Remove			
○ Pool			✓ Include system tasks				
			Include secondary thread	s			
○ Current user profile			Use a case-sensitive sea	rch			75
O Current wait							75



August 2018 (1327) – CSI/JW – Collection Search Browse update

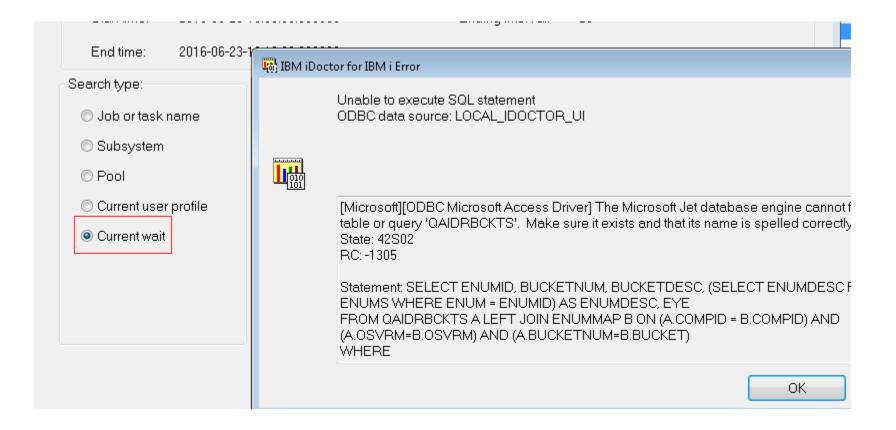
 The browse function will now use the value entered in the textbox (if any) next to it as a filter to reduce the results shown. The new "Starts with" (or contains) option also now applies to the browse window.

353	Total intervals:	20
a	Starting interval:	Srowse Collection Search Values - Idoc720
3-10.35.00.000000	Ending interval:	Below are the possible values matching your selection. S the desired value to search on from the list below.
3-12.10.00.000000		Job name
Search criteria: Job or task name starts with:	SM	SM_INTERFACE_SRC SMASMTASK ASM SMASPAGENTTASK SMASPFSCLEAN_001 SMASPTASK SMBALANCETASK SMBCONNMONITORNB SMBCONNMONITORTP SMBCONNWORKER SMBMESSAGE SMBMESSAGE SMBSCAVENGER
Time range (optional):		SMBSERVERMAIN
Start time:	2016-06-23-10.35.00	SMBWORKER
End time:	2016-06-23-12.10.00	SMCECVPDUPDATETS SMCFGUPDATER



August 2018 (1327) – CSI/JW – Collection Search updates

• The option to browse using search type "Current wait" (i.e. enum) did not work at all.





August 2018 (1327) – JW – Collection Search SQL statement option

• Added an option to do a case-sensitive search (or not) on the SQL statement.

Search type:	Search criteria:			
◯ Job or task name	SQL statement starts with:	where mydata = 'hiya'		✓ Browse
⊖Subsystem	Starto With.		Starts with search	<u>R</u> emove
OPool				
○ Current user profile			Use a case-sensitive	search
◯ Call stack				
◯Taskcount	Time range (optional):			
SQL statement	Start time:	2012-11-12-00.28.16	- -	
Current wait (object)	End time:	2012-11-12-01.28.15	* *	



August 2018 (1327) – Display job log error

• Improved the error handling when using the Display job log option and it fails to find the required program Istjbl.exe. It will now clearly state the reason for the error.

IBM i Conne	ections Idoc720: Job W	/atcher - #1	Remote SQL Statement Status 📧						
Time	-	SQL Statement							
X 09/05/18 12:0	06:36 Idoc720 Running	CALL QIDRGU	I/QIDRJWSUM1 ('AAAAQ', 'BUID', '', '', '', '', '', '', '', '',	', '10000					
			IBM iDoctor for IBM i	×					
					IBM i Connections	Idoc72	20: Job Watcher	- #1 Re	emote SQL Statement Status 🛛 🛛
						tem St			SQL Statement
			Unable to display job log	Ī	✓ 09/05/18 13:28:27 Ide	oc720 0	9/05/18 13:28:4	Display	y Job Log Error
			ОК						Display job log command failed for QZDASOINIT/QUSER/435583
								1 38	
									> Istjbl.exe /SYSTEM IDOC720 / JOB 435583/QUSER/QZDASOINIT
									Istjbl.exe not found!



August 2018 (1327) – Installation secure FTP support broken

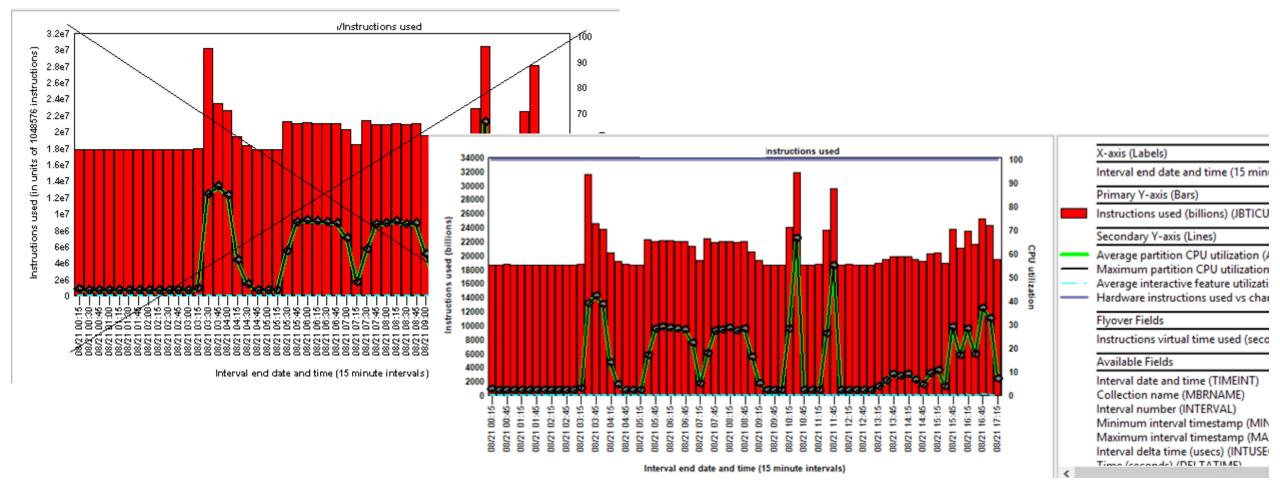
 In the installer, the support to FTP securely ("Use SSL" option) was broken and has been fixed. Also fixed a potential issue when doing the FTP connection test, it may try to use the wrong directory and cause a failure.

FTP connection failed!	IBM iDoctor for IBM i
Unable to verify the FTP connection to the server You may need to use a different port or SSL mode depending on how the system you are connecting to and your network are configured. If you are connecting to this system over a VPN connection, you should try unchecking the 'Use Passive' checkbox	Unable to send file C:\windows\system32\FTPTEST.savf to remote path /QSYS.LIB/QTEMP.LIB/FTPTEST.savf rc 2 The system cannot find the file specified.
Ok	ОК



August 2018 (1327) – CSI - CPU Graphs -> P8 or higher update

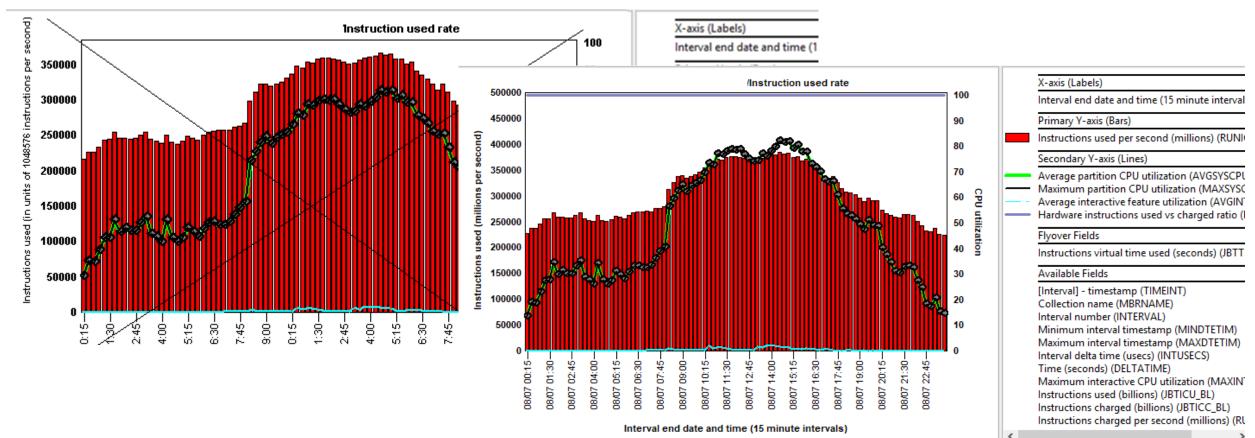
 Most of the instruction counts are now shown in billions instead of "in units of 1048576 instructions" to improve usability.





August 2018 (1327) – CSI - CPU Graphs -> P8 or higher update

 The instruction rates are now shown in millions per second instead of "in units of 1048576 instructions per second" to improve usability.

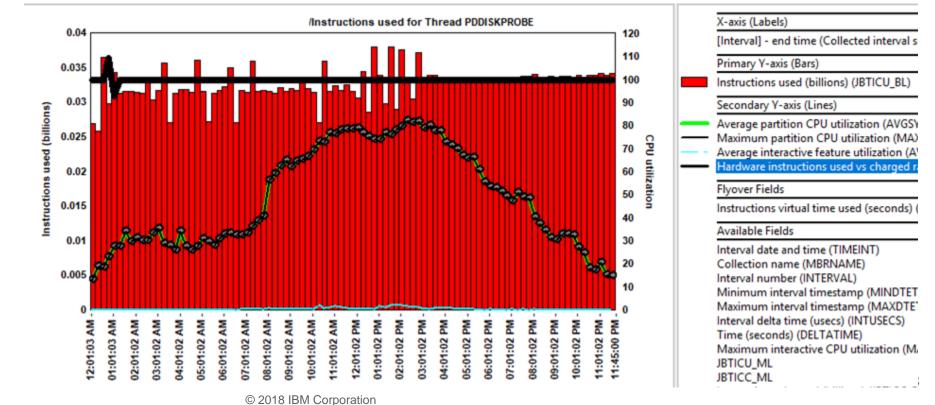




August 2018 (1327) – CPU Graphs -> P8 or higher used vs charged ratio

 These graphs on the Y2 now include a percent of instructions used vs charged (same value for both is at 100%): Instructions used

Instructions used Instructions charged Instruction used rate Instruction charged rate





August 2018 (1327) – CSI - CPU Graphs drill down removed

 In CSI the drill down graph Selected Threads/Job/etc -> CPU graphs -> Hardware instructions per second has been removed as it was a duplicate graph with Instructions used rates.

 Instruction used rate for Thread 'QP0ZS	:=\ <u>;</u> ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	
Selected Threads		Wait graphs
Selected Threads flattened	Hardware instructions per second	CPU graphs
Rankings filtered by selected Thread	Instructions used	I/O and memor
Collection overview	Instructions charged	JVM graphs
Preferences	Instruction used rate	IFS graphs
Run Collection Summary Launch Workload Estimator	Instruction charged rate Instructions virtual time used	Communicatior Other graphs



August 2018 (1327) – CSI - Incorrect idle wait calculations

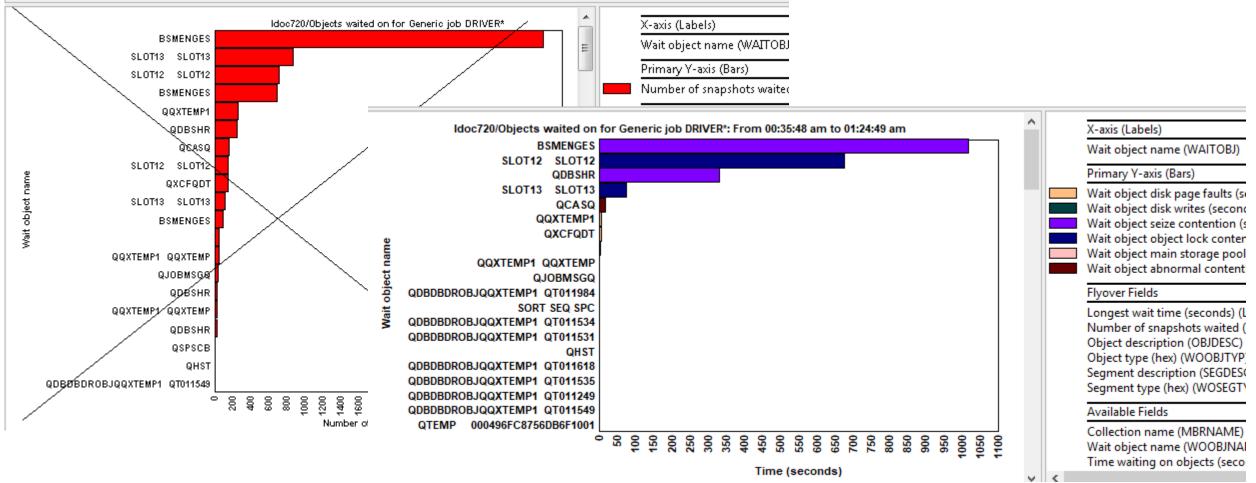
- In CSI, for unsummarized collections, the <OBJTYPE> wait time signature for <XYZ> wait bucket graph calculated the idle waits incorrectly in the SQL statement <u>for all groupings</u> <u>above thread</u>. (job, generic job, etc)
- The SQL was incorrectly trying to compare a generic job name to the TDE ID as a filter...

FROM QTEMP/QAPMSYSTEM QSY LEFT OUTER JOIN QTEMP/QAPMJOBWTG QWT ON QSY.INTNUM = QWT.INTNUM WHERE CHAR(HEX(JWTDE)) IN ('DEFAUL*')



August 2018 (1327) – JW -> Waits -> Objects waited on drill downs

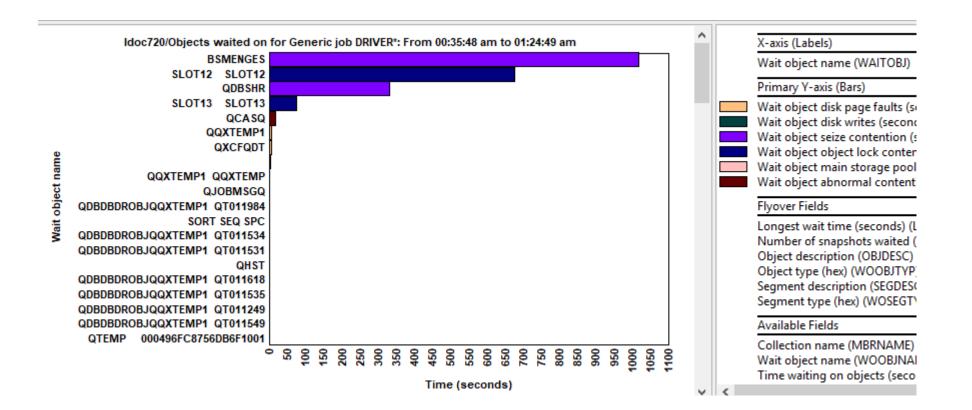
• These graphs will now show the "interesting" wait bucket times associated with each wait object instead of showing the number of intervals each wait object was found in the data.





August 2018 (1327) – JW -> Waits -> Objects waited on drill downs

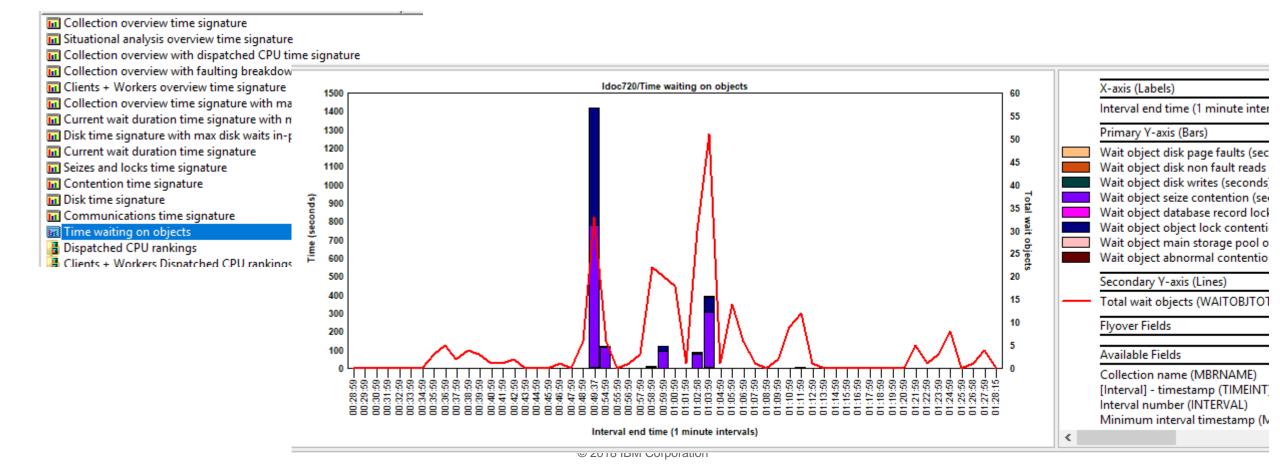
• These graphs previously did not support multiple collections but do now.





August 2018 (1327) – JW -> Time waiting on objects

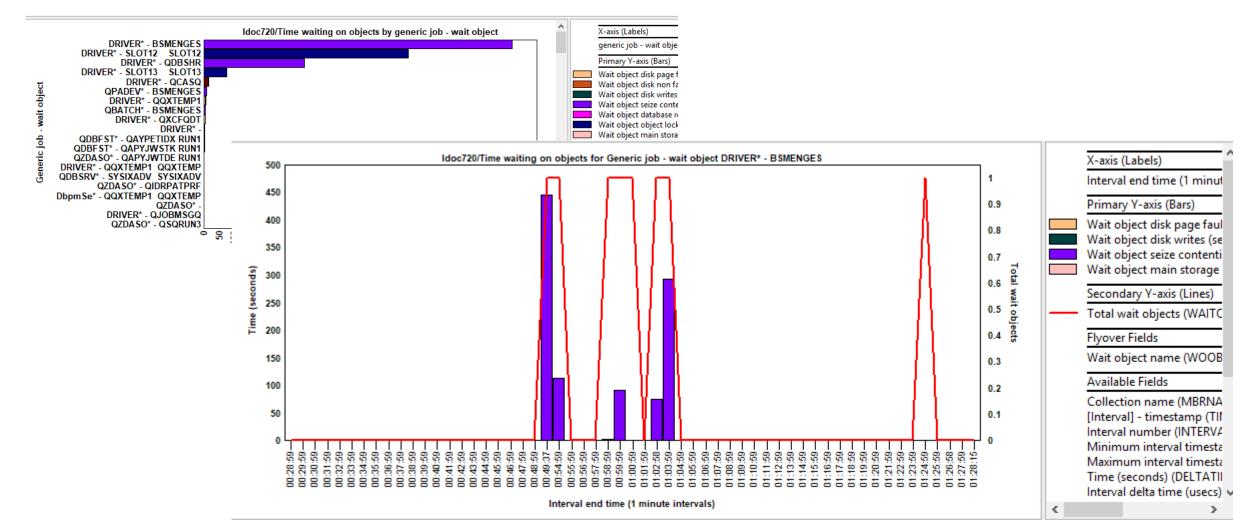
 These graphs add up "interesting" current wait durations while a wait object was found and provides analysis capability of the waits associated with the wait objects.





August 2018 (1327) – JW -> Time waiting on objects

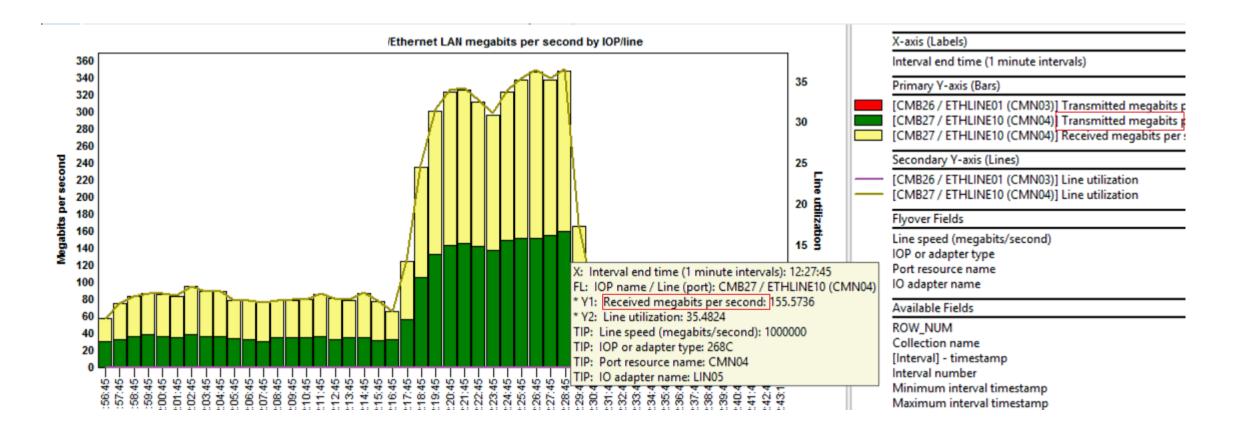
• Generic job - wait object job grouping example.





August 2018 (1327) – Fixed bad flyover descriptions in flattened graphs

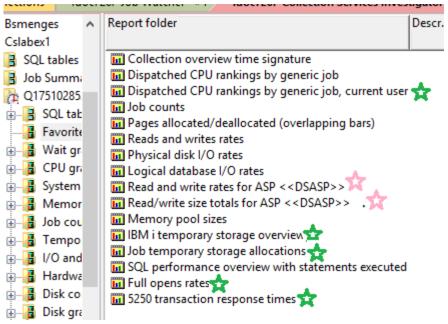
• In some flattened graphs, the Y1 flyover description was incorrect and has been fixed.





August 2018 (1327) – CSI – Favorites folder updates

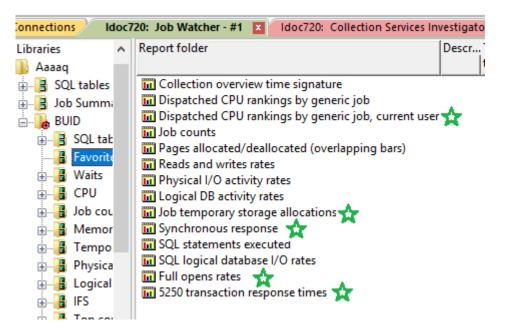
- The latest CSI Favorites folder contents are shown below.
 - New graphs = green star, changed graphs = pink star.
 - Removed the following graphs:
 - Dispatched CPU rankings by thread
 - Job temporary storage allocations by thread





August 2018 (1327) – JW – Favorites folder updates

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August 2018 (1327) – CSI – Active virtual processors graph

- The values shown can now exceed 32 virtual processors.
 - Data now comes from QAPMSYSVP instead of QAPMSYSCPU which allows this.
 - Simplified the field descriptions shown to be: Total virtual processors (TOTVPS) Active virtual processors (ACTVPS)



August 2018 (1327) – JW – Generic job for the selected thread drill down

- Renamed the drill down to "Generic job for selected <<OBJTYPE>>" i.e. thread/user/etc since this option is available from more types of rankings than just thread rankings.
- The rates graphs showed inaccurate rate values if the interval selection was greater than the collected interval size.
- The Generic job X* memory page demand graph did not work.



August 2018 (1326) – Power Connections issues fixed

- Fixed bugs in many spots related to the connection settings for Power systems (VIOS, HMC, etc) getting confused / saved in the location for IBM i connections instead.
 - FTP transfers may fail, because the wrong connection settings were being used.
 - This also effected functions that show data (open file), transfer files, or the edit option.

IBM i Connection	ns Power Connections	Remote Command Status 🛛 IBM iDod	tor for IBM i - Prope
Time	System	Status	Command
08/16/18 09:38:59		Complete (.48 seconds)	cat /tmp/idoctor
08/16/18 09:39:09		Complete (.22 seconds)	cat /tmp/idoctor
V 08/16/18 09:39:10		08/16/18 09:39:13: Completed successfully >	rm /tmp/idoctor,
08/16/18 09:39:10		08/16/18 09:39:30: Completed successfully >	print "/tmp/idoct
16/18 09:39:10		Error: An FTP connection is not available. >	get /tmp/idoctor
08/16/18 09:40:23		Complete (.45 seconds)	ioscli ioslevel
V 08/16/18 09:40:23		Complete (.48 seconds)	cat /tmp/idoctor
08/16/18 09:40:24		Complete (.66 seconds)	print "oslevel" o



August 2018 (1326) – Power Connections find window

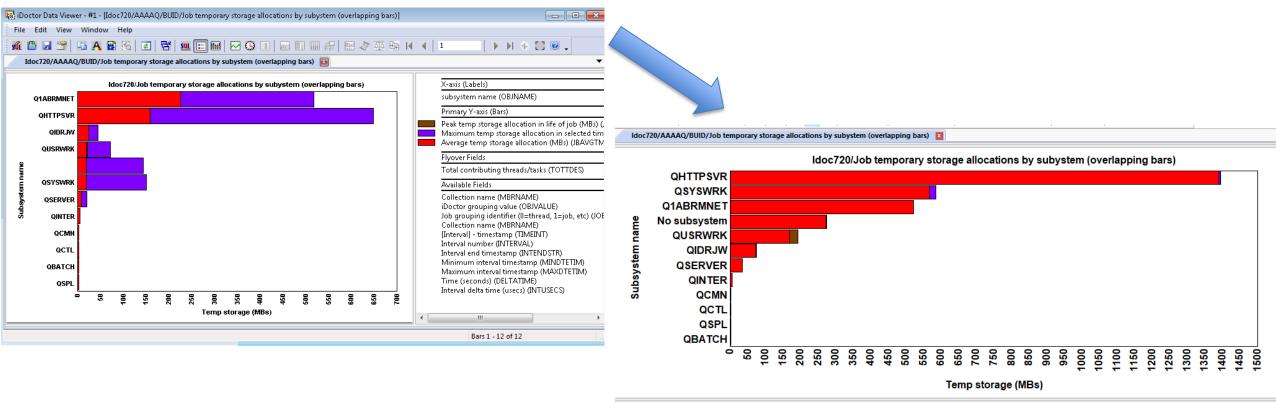
- In the find window, the preference for the search directories can now be saved for each type of data (nmon, npiv, etc.) Previously all types of data shared the same value.
- Also the text on the window that refers to multiple system(s) when doing a find has been removed as this support no longer exists.

🖆 Find nn	non data		×
This fun directori Warning	OK Cancel		
	System: Search directories:	Ebvios /home /tmp	



August 2018 (1326) – JW temp storage graphs inaccurate

 In Job Watcher, the Temporary storage - job temporary storage ranking graphs and selection over time were inaccurate and have been fixed. The values given were considerably smaller than they should have been in some situations.

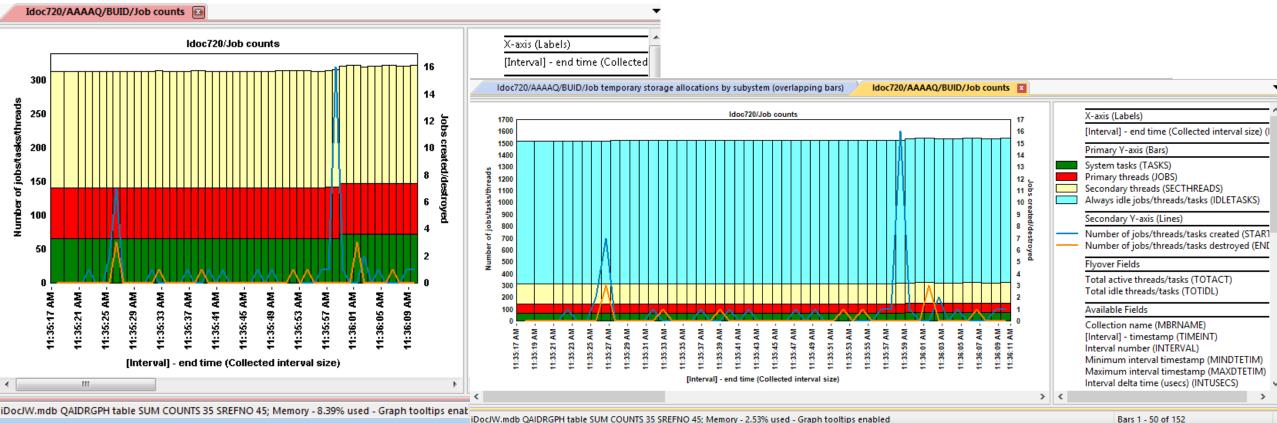


DocIW mdb OAIDRGPH table SLIM TMPRK 1105 AITID 7 SRFENO 24: Memory - 1 78% used - Granh tooltins enabled



August 2018 (1326) – JW Job counts missing "always idle work"

The Job Watcher job counts graphs were inaccurate as they did not include jobs/threads that never used CPU during the collection. Because they never used CPU we do not know if they are jobs, threads or tasks.

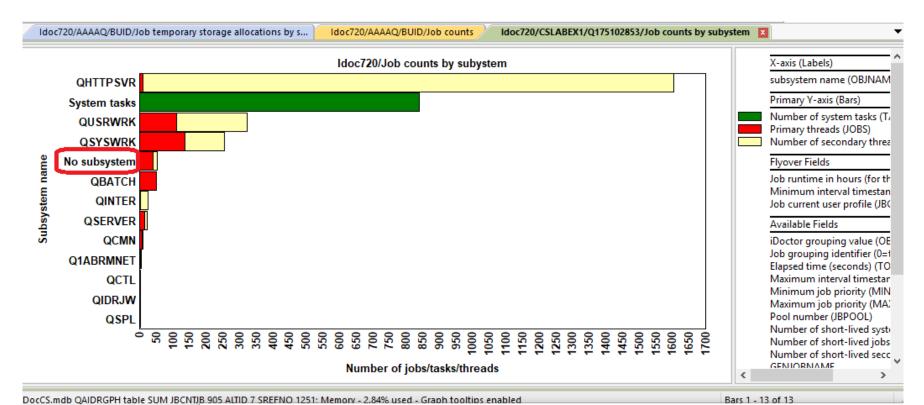


iDocJW.mdb QAIDRGPH table SUM COUNTS 35 SREFNO 45; Memory - 2.53% used - Graph tooltips enabled



August 2018 (1326) – CSI ranking graphs – "No subsystem"

 In CSI fixed a problem in some of the ranking graphs where you may see "All system tasks" appear in the results when ranking by subsystem. This was really just data (not necessarily system tasks) where no subsystem was assigned to the job. This has been renamed to "No subsystem".



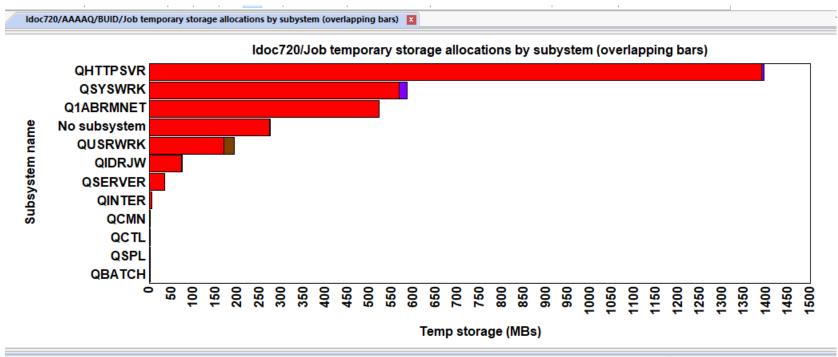


August 2018 (1326) – JW ranking graphs – "No subsystem", "No user"...

In JW in ranking graphs if no value is found applicable for the current grouping (i.e. subsystem, current user, etc) then instead of seeing blank you will now see text such as "No subsystem". This provides the ability to drill down further on this entry where previously this was not possible.

Bars 1 - 12 of 12

- For example you could drill down to see the jobs within the "No subsystem" grouping.



DocIW mdb OAIDRGPH table SLIM TMPRK 1105 AITID 7 SREENO 24: Memory - 1 78% used - Graph tooltins enabled