IBM Sterling B2B Integrator Database monitor SIDBMonitor 1.8.0

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Description of the tool

The SIDBMonitor tool is a standalone java program that generates monitoring reports from an IBM Sterling B2B Integrator (ISBI) Database. The tool can generate two kinds of reports: the detailed report and the lightweight report in the HTML format.

LW daily report extract:

The Light Weight report contains important monitoring KPIs from the Sterling Integrator Database to prevent Database growth and large backlogs it will also give some information about the size of the Database:

start time	trans data	document	workflo context	correlat set	trans data -1	trans data 0	correl set -1	document -1	mbx message	document extension	document lifespan	workflo linkage	wf inst s	doc size MB	non index ct	purge ct	eligible purge ct	halted ct	Interpt ct
2013-11-01 20:30:57	22634099	2182620	12813225	0	3429964	0	0	2083377	754932	1391696	7267959	4936298	2680210	890015	180	9751187	1003	0	0
2013-11-01 20:39:55	22642519	2181721	12817874	0	3426632	0	0	2081882	755255	1390963	7273038	4952133	2682916	888590	310	9755074	4978	0	0
2013-11-01 20:50:06	22644307	2180944	12832206	0	3423730	0	0	2080438	756333	1390235	7283266	4977119	2689465	888222	175	9764475	11752	0	0
2013-11-02 20:50:09	6035217	340075	5150104	0	649775	0	0	324960	2563	327010	2463705	1907528	1339360	135612	138	3451186	278	2	1

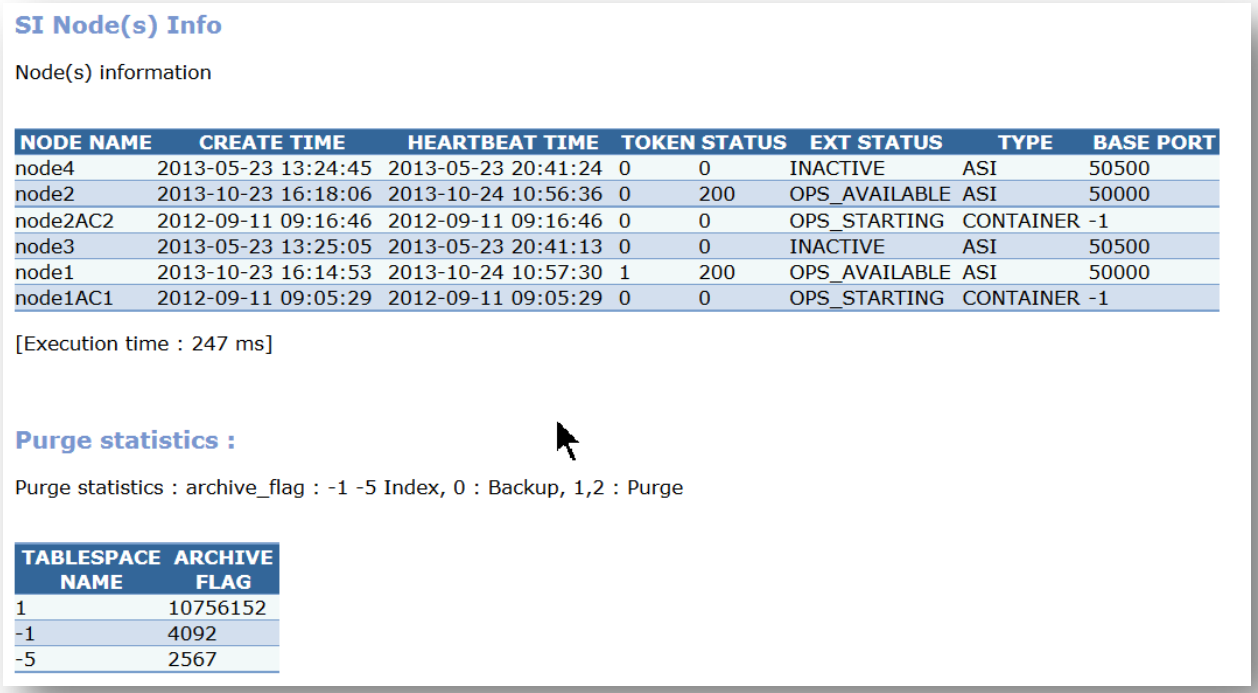
Full report extract:

It contains various SQL reports generated from the Sterling Integrator Database.

Purge distribution per hour :

Purge/Archive counts per hour cumulative

ARCHIVE DATE HH24	COUNT
00	382176
01	292868
02	252406
03	211244
04	262229
05	316863
06	382998
07	406575
08	295414
09	280031
10	291222
11	770719
12	707117
13	628131
14	615785
15	567619
16	578701
17	538605
18	553972
19	576603
20	509916
21	470064
22	459879
23	405087



SI Node(s) Info

Node(s) information

NODE NAME	CREATE TIME	HEARTBEAT TIME	TOKEN	STATUS	EXT STATUS	TYPE	BASE PORT
node4	2013-05-23 13:24:45	2013-05-23 20:41:24	0	0	INACTIVE	ASI	50500
node2	2013-10-23 16:18:06	2013-10-24 10:56:36	0	200	OPS_AVAILABLE	ASI	50000
node2AC2	2012-09-11 09:16:46	2012-09-11 09:16:46	0	0	OPS_STARTING	CONTAINER	-1
node3	2013-05-23 13:25:05	2013-05-23 20:41:13	0	0	INACTIVE	ASI	50500
node1	2013-10-23 16:14:53	2013-10-24 10:57:30	1	200	OPS_AVAILABLE	ASI	50000
node1AC1	2012-09-11 09:05:29	2012-09-11 09:05:29	0	0	OPS_STARTING	CONTAINER	-1

[Execution time : 247 ms]

Purge statistics :

Purge statistics : archive_flag : -1 -5 Index, 0 : Backup, 1,2 : Purge

TABLESPACE NAME	ARCHIVE FLAG
1	10756152
-1	4092
-5	2567

What's new in SIDBMonitor 1.7.0

- JSON output for Light Weight reports.
- More SQL queries in the full report.

Existing features:

- Improvements to DB2 queries: using with UR.
- MS SQL SERVER support.
- DB2 support.
- Oracle support
- Out of the box configurable Database KPIs.
- Possibility of adding custom tables counts in the LW report.
- New SQL queries added to the LW report with flags to enable/disable the queries:
    - AssociateBPtoDocs unassociated documents count (Associate backlog).
    - Trans_data orphans count.
    - Database total space (Oracle and DB2).
    - Database free space (Oeacle and DB2).

Running the SIDBMonitor

The SIDBMonitor package contains:

- **SIDBMonitor.jar** : the application executable jar.
- **SIDBMonitor.properties :** property file.
- **SIDBMonitor.sh:** launch script for SIDBMonitor on Unix and Linux.
- **SIDBMonitor.cmd:** launch script for SIDBMonitor on Windows.
- **SIDBMonitor170.pdf :** this documentation file.

```
 18447 Apr 29 12:25 SIDBMonitor.jar
  1683 Apr 29 12:32 SIDBMonitor.sh
  3134 Apr 29 12:33 SIDBMonitor.properties
```

To run the tool:

- Copy the files into a folder either on the ISBI server or on any other computer that can access the ISBI database.
- Edit the SIDBMonitor.properties :

```
# Database Performance monitor for IBM Sterling B2B Integrator 1.7.0

# Please note this is a NON IBM PRODUCT.
# You use this Software at your own risk and agree that IBM shall not be liable for
any damages,
# including but not limited to, direct, indirect, incidental, special, cover,
reliance, or consequential damages,
# arising from your use of the Software.

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# copy the jdbc url from your ISBI jdbc.properties


# DB2 Example
jdbc.url=jdbc:db2://xxx.xxx.xxx.xxx:60000/SI524
  jdbc.username=si524
  jdbc.password=yourPassword
  jdbc.schema=si524


#encrypt password
#jdbc.encrypt=true
jdbc.encrypt=false
#Debug : true/false
jdbc.debug=true

# fullReport
# true: Detailed  report to run once.
# false: lightweight version with KPI and counts only that can run in a schedule
```
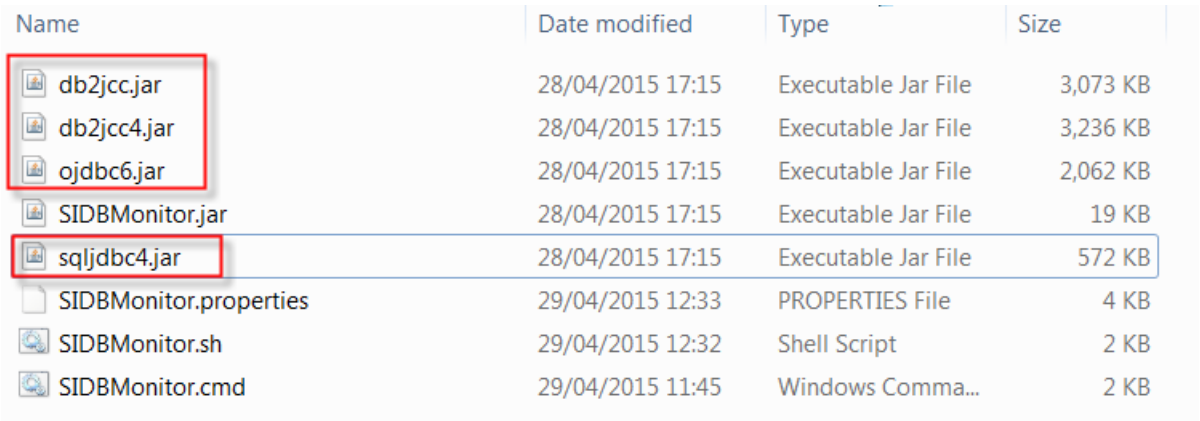

```
jdbc.fullReport=false

#trans_data distribution SQL for full report only and Oracle only - long running SQL
if trans_data is big
jdbc.trans_data_dist=false


# Add the list of tables you want to have a count in the LW report
# Separate with comma ,
# If the list is changed please delete the LW report to generate a new report with the
correct headers
#
jdbc.table_list=DATA_TABLE,DOCUMENT,BPMV_REIDX,WORKFLOW_CONTEXT,CORRELATION_SET,MBX_ME
SSAGE,DOCUMENT_EXTENSION,WF_INST_S,DOCUMENT_LIFESPAN,WORKFLOW_LINKAGE,TRANS_DATA
# SFG tables: FG_EVENTATTR,FG_EVENT,FG_ARRIVEDFILE,FG_DELIVERY
# Other tables: ACT_SESSION,DATA_FLOW,DATA_TABLE

jdbc.table_list=DOCUMENT,BPMV_REIDX,WORKFLOW_CONTEXT,CORRELATION_SET,MBX_MESSAGE,DOCUM
ENT_EXTENSION,DOCUMENT_LIFESPAN,WORKFLOW_LINKAGE,TRANS_DATA



# Flags for monitoring queries

jdbc.correlation_set-1=true
jdbc.document-1=true
jdbc.documentTotalSize=true
jdbc.eligiblePurgeCount=true
jdbc.purgeCount=true
jdbc.nonIndexCount=true
jdbc.haltedBPCount=true
jdbc.interruptedBPCount=true

# long running monitoring SQL: disable if counts are stable
jdbc.trans_data-0=true
jdbc.trans_data-1=true
jdbc.missingLifespanSweeper=true
jdbc.correlationSweeper=true
jdbc.transDataOrphansCount=true
jdbc.unassociatedCount=true


#Oracle GRANT SELECT ON table SYS.DBA_DATA_FILES / GRANT SELECT ON table
SYS.DBA_FREE_SPACE
# DB2 GRANT SELECT ON table systools.stmg_dbsize_info
#Oracle and DB2 Only

jdbc.DBFreeSpace=true
jdbc.DBTotalSpace=true

# New properties for 1.7.0
jdbc.distinctWorkflowCount=true
```

- Open a command window or shell.
- Go to the SIDBMonitor folder where the files were copied.
- Copy the JDBC driver to the SIDBMonitor folder or adjust the launch script to point to the ISBI install directory where the driver can also be found:



Name	Date modified	Type	Size
db2jcc.jar	28/04/2015 17:15	Executable Jar File	3,073 KB
db2jcc4.jar	28/04/2015 17:15	Executable Jar File	3,236 KB
ojdbc6.jar	28/04/2015 17:15	Executable Jar File	2,062 KB
SIDBMonitor.jar	28/04/2015 17:15	Executable Jar File	19 KB
sqljdbc4.jar	28/04/2015 17:15	Executable Jar File	572 KB
SIDBMonitor.properties	29/04/2015 12:33	PROPERTIES File	4 KB
SIDBMonitor.sh	29/04/2015 12:32	Shell Script	2 KB
SIDBMonitor.cmd	29/04/2015 11:45	Windows Comma...	2 KB

- Run: **chmod u+x *.sh** to make the launch script executable on Unix and Linux.
- Edit SIDBMonitor.sh and uncomment the launching command depending on your Database type. There is a command for each of the supported DBs.
- Run the launch script **SIDBMonitor.sh** for Unix and Linux or **SIDBMonitor.cmd** for Windows.

Important notes:

- The SIDBMonitor tool needs ONLY one of the following JDBC drivers:
  - For Oracle the ojdbc6.jar Oracle driver.
  - For DB2 the db2jcc.jar, db2jcc4.jar driver.
  - For MSSQL Server sqljdbc4,jar driver.
  - Jackson-core-2.8.1.jar JSON library.
- The application works with java 1.6 and higher.

Launch script for Unix and Linux:

SIDBMonitor.sh:

```
#!/bin/bash

# USAGE:

# chmod u+x  SIDBMonitor.sh

# ./SIDBMonitor.sh

# Change SI_PATH to point to your SI directory.

# You can also copy the jdbc driver on the same directory as the SIDBMonitorApplication

SI_PATH=/home/skorn/IBM/SterlingIntegrator/install

JAVA_PATH=${SI_PATH}/jdk/jre/bin

##########################

#   ORACLE

##########################

# If you run the application from SI server

#${JAVA_PATH}/java -cp .:SIDBMonitor.jar:${SI_PATH}/dbjar/jdbc/Oracle/ojdbc6.jar
com.support.SIDBMonitor.SIDBMonitor

# If the driver is on the same folder as the application -- Un-Comment the following line

# Adjust the java path if necessary

#${JAVA_PATH}/java -cp .:SIDBMonitor.jar:ojdbc6.jar  com.support.SIDBMonitor.SIDBMonitor

##########################

#   DB2

##########################



# If you run the application from SI server

#${JAVA_PATH}/java -cp .:SIDBMonitor.jar:${SI_PATH}/dbjar/jdbc/db2/db2jcc.jar:
${SI_PATH}/dbjar/jdbc/db2/db2jcc4.jar com.support.SIDBMonitor.SIDBMonitor



# If the driver is on the same folder as the application -- Un-Comment the following line

# Adjust the java path if necessary

${JAVA_PATH}/java -cp .:SIDBMonitor.jar:db2jcc.jar:db2jcc4.jar
com.support.SIDBMonitor.SIDBMonitor
```

```
##########################

#   MS SQL SERVER

##########################

# If you run the application from SI server

#${JAVA_PATH}/java -cp .:SIDBMonitor.jar:${SI_PATH}/dbjar/jdbc/db2/sqljdbc4.jar
com.support.SIDBMonitor.SIDBMonitor

# If the driver is on the same folder as the application -- Un-Comment the following line

# Adjust the java path if necessary

#${JAVA_PATH}/java -cp .:SIDBMonitor.jar:sqljdbc4.jar  com.support.SIDBMonitor.SIDBMonitor
```

Launch script for Windows:

```
@echo off

REM USAGE:

REM SIDBMonitor.cmd

REM Change SI_PATH to point to your SI directory.

REM You can also copy the jdbc driver on the same directory as the application

set SI_PATH=%/Sterling

set JAVA_PATH=%SI_PATH%/jdk/jre/bin

REM Use this command if you run the application from SI server with Oracle

REM %JAVA_PATH%/java -cp ".;SIDBMonitor.jar;%SI_PATH%/dbjar/jdbc/Oracle/ojdbc6.jar"
com.support.SIDBMonitor.SIDBMonitor

REM Use this command if you run the application from SI server with DB2

REM %JAVA_PATH%/java -cp
".;SIDBMonitor.jar;%SI_PATH%/dbjar/jdbc/DB2/db2jcc.jar;%SI_PATH%/dbjar/jdbc/DB2/db2jcc4.jar"
com.support.SIDBMonitor.SIDBMonitor

REM Use this command if you run the application from SI server with MS SQL Server

REM %JAVA_PATH%/java -cp ".;SIDBMonitor.jar;%SI_PATH%/dbjar/jdbc/MSSQL/sqljdbc4.jar"
com.support.SIDBMonitor.SIDBMonitor

REM Use this command if the driver is on the same folder as the application

REM Adjust the java path if necessary

REM Oracle
```

```
java -cp ".;./SIDBMonitor.jar;./ojdbc6.jar"  com.support.SIDBMonitor.SIDBMonitor

REM DB2

REM java -cp ".;./SIDBMonitor.jar;./db2jcc.jar;./db2jcc4.jar"
com.support.SIDBMonitor.SIDBMonitor

REM MS SQL SERVER

REM java -cp ".;./SIDBMonitor.jar;./sqljdbc4.jar"  com.support.SIDBMonitor.SIDBMonitor
```

How to encrypt the database password in the property file:

When the jdbc.encrypt=false, the database password is displayed in the standard output:

```
==========================================
IBM Sterling B2B Integrator Database monitor
==========================================
DEBUG.. true
fullReport.. true
Encrypt.. false
Encrypted Password.. 1D2857BFBC96D6A7259232266900A85D
Output file.. SIDBPerfReport_01112013_095511.html
```

After running the application, for the first time, with jdbc.encrypt=false , copy the encrypted password string from the output into the SIDBMonitor.properties in jdbc.password and change the jdbc.encrypt to true:

```
jdbc.password=1D2857BFBC96D6A7259232266900A85D
jdbc.schema=si52aix6

#encrypt password
jdbc.encrypt=true
```

How to schedule SIDBMonitor to run a daily LWReport on Linux/Unix:

- Change fullReport=false in the SIDBMonitor.properties.
- To edit your crontab list run crontab –e
- To run the application daily at 3.00 am daily, add the line to the crontab list:
  `0 3 * * * /path/SIDBMonitor.sh >/dev/null 2>&1`

```
* * * * * command to be executed
- - - - -
| | | | |
| | | | ----- Day of week (0 - 7) (Sunday=0 or 7)
| | | ------- Month (1 - 12)
| | --------- Day of month (1 - 31)
| ----------- Hour (0 - 23)
------------- Minute (0 - 59)
```

Light weight monitoring mode: (jdbc.fullReport=false)

Command line output:

```
/home/acope/SIDBMonitor>./SIDBMonitor.sh
================================================
IBM Sterling B2B Integrator Database monitor
================================================
DEBUG.. true
fullReport.. false
Encrypt.. false
transDataDist.. false
Found internal config file /com/sterlingcommerce/security/jcae/provider.txt, loading it now!
Done loading it.
Encrypted Password .. A278C75C9CFED34C1F9D35A6A273AD0C
Output file.. SIDBMonitorReport.html
Connection Result: Connected to : jdbc:db2://[redacted]:60000/SI524_HR in:  385 ms
Database Vendor... DB2/NT64
transData_1.. true
transData_0.. true
correlationSet_1.. true
document_1.. true
correlationSweeper.. true
documentTotalSize.. true
eligiblePurgeCount.. true
purgeCount.. true
nonIndexCount.. true
haltedBPCount.. true
interruptedBPCount.. true
unassociatedCount.. true
transDataOrphansCount.. true
Free Space GB... true
Total space GB.. true
start time...2015-04-29 13:47:14.107
 [ Execution time -> 24 ms ]
DOCUMENT count...118
 [ Execution time -> 2 ms ]
BPMV_REIDX count...0
 [ Execution time -> 2 ms ]
WORKFLOW_CONTEXT count...305951
 [ Execution time -> 25 ms ]
```

```
TRANS_DATA count...644440
 [ Execution time -> 48 ms ]
select count(*) from si524_hr....12
 [ Execution time -> 2 ms ]
select count(*) from si524_hr....0
 [ Execution time -> 1 ms ]
select count(*) from si524_hr....0
 [ Execution time -> 2 ms ]
select count(*) from si524_hr....6
 [ Execution time -> 2 ms ]
SELECT count(DISTINCT A.OBJECT...0
 [ Execution time -> 2 ms ]
select round(sum(DOCUMENT_SIZE...3
 [ Execution time -> 3 ms ]
SELECT count(*) FROM si524_hr....19
 [ Execution time -> 2 ms ]
SELECT count(*) FROM si524_hr....13658
 [ Execution time -> 8 ms ]
select count(*) from si524_hr....20196
 [ Execution time -> 3 ms ]
select count(distinct WC.WORKF...10034
 [ Execution time -> 45 ms ]
SELECT count( distinct WC.WORK...60
 [ Execution time -> 78 ms ]
SELECT count(distinct D.DOC_ID...0
 [ Execution time -> 2 ms ]
SELECT COUNT(*) FROM si524_hr....0
 [ Execution time -> 3 ms ]
SELECT  (db_capacity-db_size)/...25
 [ Execution time -> 1 ms ]
SELECT db_capacity/1024/1024/1...34
 [ Execution time -> 2 ms ]
end time...2015-04-29 13:47:14.373
 [ Execution time -> 2 ms ]
The Report was successfully generated! SIDBMonitorReport.html
/home/acope/SIDBMonitor>
```

:

Screenshot from the LW report:

IBM Sterling B2B Integrator Database monitor

Connected to : jdbc:oracle:thin:@(DESCRIPTION=(ADDRESS_LIST=(ADDRESS=(PROTOCOL=TCP)(HOST=)
(PORT=1521)))(CONNECT_DATA=(SERVER=DEDICATED)(SERVICE_NAME=))) in: 499 ms

start time	DOCUMENT	BPMV REIDX	WORKFLOW CONTEXT	CORRELATION SET	MBX MESSAGE	DOCUMENT EXTENSION	DOCUMENT LIFESPAN	WORKFLOW LINKAGE	TRANS DATA	trans data -1	trans data 0	correl set -1	document -1	CS sweeper	doc size MB
2014-08-20 05:44:55	39	0	60	42	0	42	0	0	287	0	0	0	0	0	0
2014-08-21 04:45:05	83327	54	380252	268635	58	59837	7838	4037	594015	10452	0	57486	5226	0	393
2014-08-22 04:45:05	170759	60	774447	551679	58	122797	16030	8213	1211050	21434	0	117887	10717	0	801
2014-08-23 04:45:04	209453	0	813839	661991	60	143352	16840	12398	1653829	22660	0	124630	11330	0	1153
2014-08-24 04:45:06	244972	72	839259	760951	59	161243	17286	16592	2081946	23048	0	126764	11524	0	1499
2014-08-25 04:45:05	246591	2	826577	764977	64	161697	17116	20715	2108515	23052	0	126786	11526	0	1523
2014-08-26 04:45:04	246310	0	817447	763196	60	160843	16940	24849	2119389	22756	0	125158	11378	0	1536
2014-08-27 04:45:04	247339	66	828174	766414	60	161403	17102	29052	2119538	22804	0	125422	11402	0	1538
2014-08-28 04:45:04	246255	0	827543	763676	55	160740	17120	33178	2112235	22800	0	125400	11400	0	1531
2014-09-01 06:47:12	247703	0	829511	770473	178	161113	17304	50431	2123839	23064	0	126848	11532	0	1555
2014-09-02 04:45:03	247615	0	832796	769219	54	161041	17300	54272	2125594	23056	0	126804	11528	0	1554
2014-09-03 04:45:05	248214	0	833083	771395	54	161647	17290	58460	2129452	23198	0	127585	11599	0	1555
2014-09-04 04:45:05	229771	0	750626	709241	58	149166	15339	61703	2007556	20582	0	113201	10291	0	1456

eligible purge CT	purge CT	non index CT	haltedBP CT	interrupted CT	unassociated CT	TD Orphans CT	Free Space GB	Total space GB	end time
0	6	32	0	0	0	0	73.51	84.94	2014-08-20 05:44:55
0	73847	89	15	0	0	0	70.79	84.94	2014-08-21 04:46:00
0	150989	133	34	0	0	0	69.2	86.13	2014-08-22 04:47:02
32	208632	181	40	0	75	0	69.23	88.13	2014-08-23 04:46:58
13	263783	161	42	0	0	0	69.25	90	2014-08-24 04:47:31
42	311781	201	48	0	113	0	69.13	90.59	2014-08-25 04:47:23
40	360751	209	55	0	83	0	69.52	91.12	2014-08-26 04:47:36
16	409888	191	57	0	0	0	69.48	91.65	2014-08-27 04:48:07
8	457607	201	66	0	0	0	69.46	92.01	2014-08-28 04:49:38
54	657098	323	106	0	0	0	69.33	93.42	2014-09-01 06:49:35
37	703783	102	3	0	0	0	69.6	94.17	2014-09-02 04:47:30
74	752901	150	10	0	76	0	69.64	94.66	2014-09-03 04:47:41
69	741278	201	34	0	63	0	69.66	94.7	2014-09-04 04:47:58
54	743358	189	39	0	43	0	69.57	94.72	2014-09-05 04:46:32

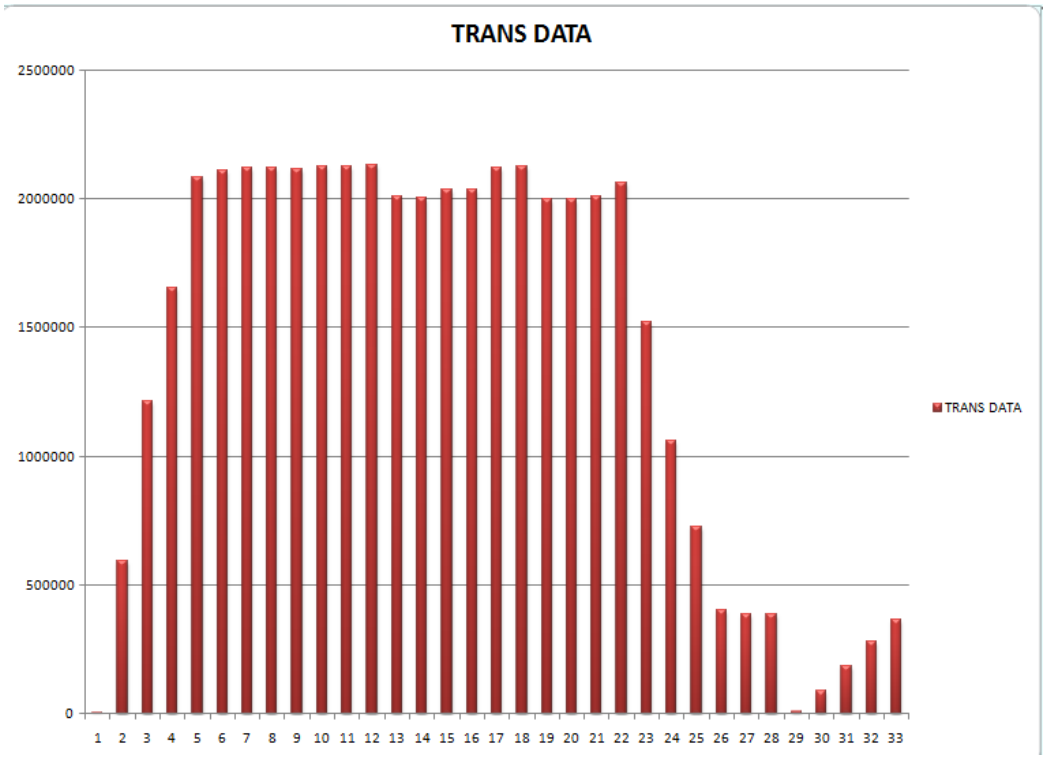
The data collected daily or weekly using the LW report can be used in Excel to generate graphs:

Copy the LW report data to Excel:

B1 DOCUMENT

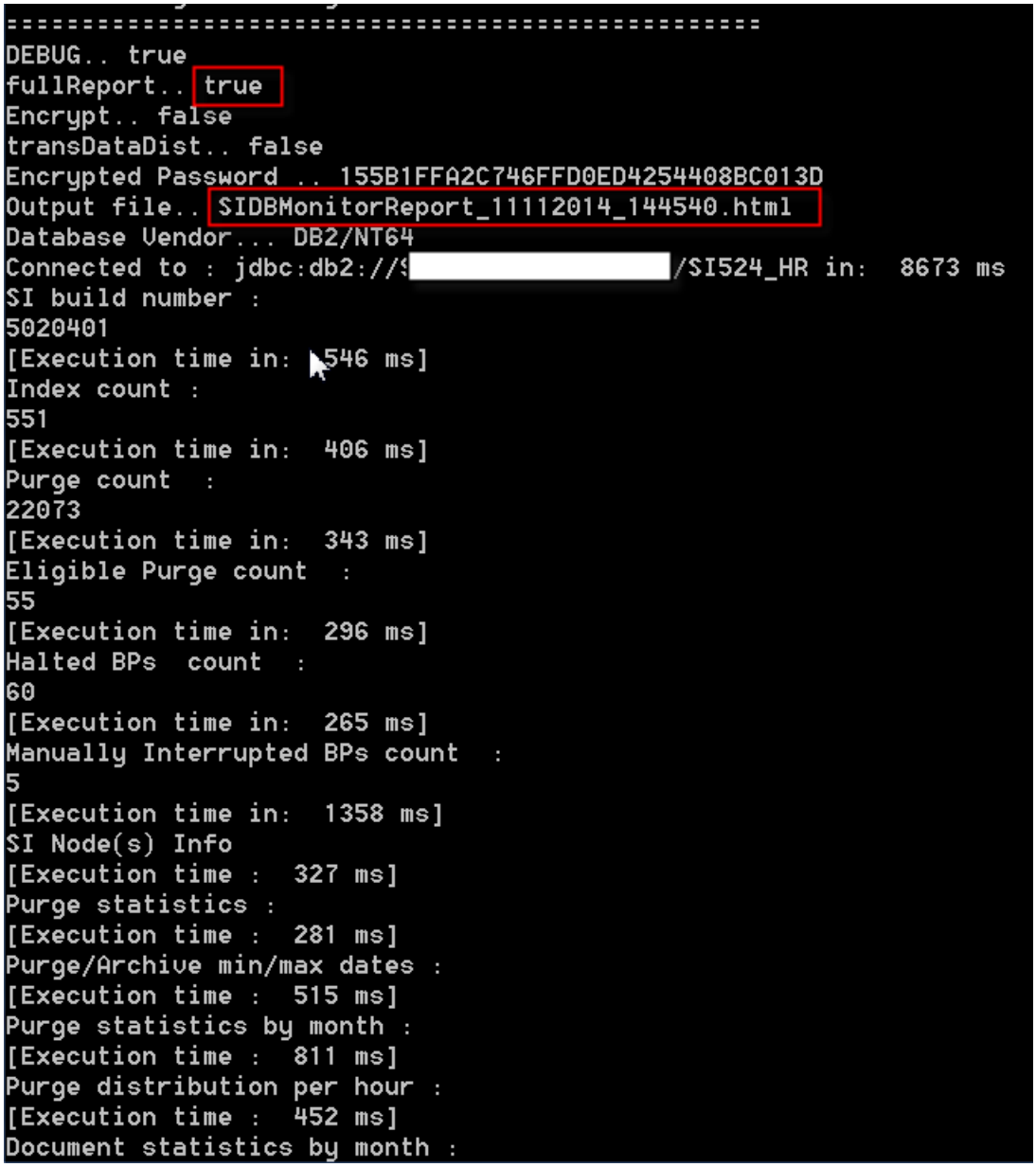
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	start time	DOCUMENT	BPMV REIDX	WORKFLOW CONTEXT	CORRELATION SET	MBX MESSAGE	DOCUMENT EXTENSION	DOCUMENT LIFESPAN	WORKFLOW LINKAGE	TRANS DATA	trans data -1	trans data 0	correl set -1	document -1
2	20/08/2014 05:44	39	0	60	42	0	42	0	0	287	0	0	0	0
3	21/08/2014 04:45	83327	54	380252	268635	58	59837	7838	4037	594015	10452	0	57486	5226
4	22/08/2014 04:45	170759	60	774447	551679	58	122797	16030	8213	1211050	21434	0	117887	10717
5	23/08/2014 04:45	209453	0	813839	661991	60	143352	16840	12398	1653829	22660	0	124630	11330
6	24/08/2014 04:45	244972	72	839259	760951	59	161243	17286	16592	2081946	23048	0	126764	11524
7	25/08/2014 04:45	246591	2	826577	764977	64	161697	17116	20715	2108515	23052	0	126786	11526
8	26/08/2014 04:45	246310	0	817447	763196	60	160843	16940	24849	2119389	22756	0	125158	11378
9	27/08/2014 04:45	247339	66	828174	766414	60	161403	17102	29052	2119538	22804	0	125422	11402
10	28/08/2014 04:45	246255	0	827543	763676	55	160740	17120	33178	2112235	22800	0	125400	11400
11	01/09/2014 06:47	247703	0	829511	770473	178	161113	17304	50431	2123839	23064	0	126848	11532
12	02/09/2014 04:45	247615	0	832796	769219	54	161041	17300	54272	2125594	23056	0	126804	11528
13	03/09/2014 04:45	248214	0	833083	771395	54	161647	17290	58460	2129452	23198	0	127585	11599
14	04/09/2014 04:45	229771	0	750626	709241	58	149166	15339	61703	2007556	20582	0	113201	10291
15	05/09/2014 04:45	229082	0	748162	706662	46	148667	15280	65893	2003661	20462	0	112541	10231
16	06/09/2014 04:45	239321	0	818581	743061	58	157846	16933	69887	2035279	22772	0	125246	11386
17	07/09/2014 04:45	239764	0	818849	744760	57	158174	16995	74079	2034310	22864	0	125752	11432
18	08/09/2014 04:40	246959	0	831682	767934	50	161228	17228	78233	2119644	23148	0	127314	11574
19	09/09/2014 04:45	247215	0	834457	768544	60	161381	17222	82401	2124186	22968	0	126324	11484
20	09/09/2014 11:35	228340	0	763622	704201	121	148417	15328	82621	1997218	20334	0	111837	10167
21	10/09/2014 04:45	228179	0	746856	703684	60	147962	15123	85531	1997554	20166	0	110913	10083
22	11/09/2014 04:45	228576	0	747396	702736	60	148098	15145	89735	2005145	20166	0	110913	10083
23	12/09/2014 04:45	243679	36	836796	757150	60	161344	17290	93949	2058807	23326	0	128293	11663

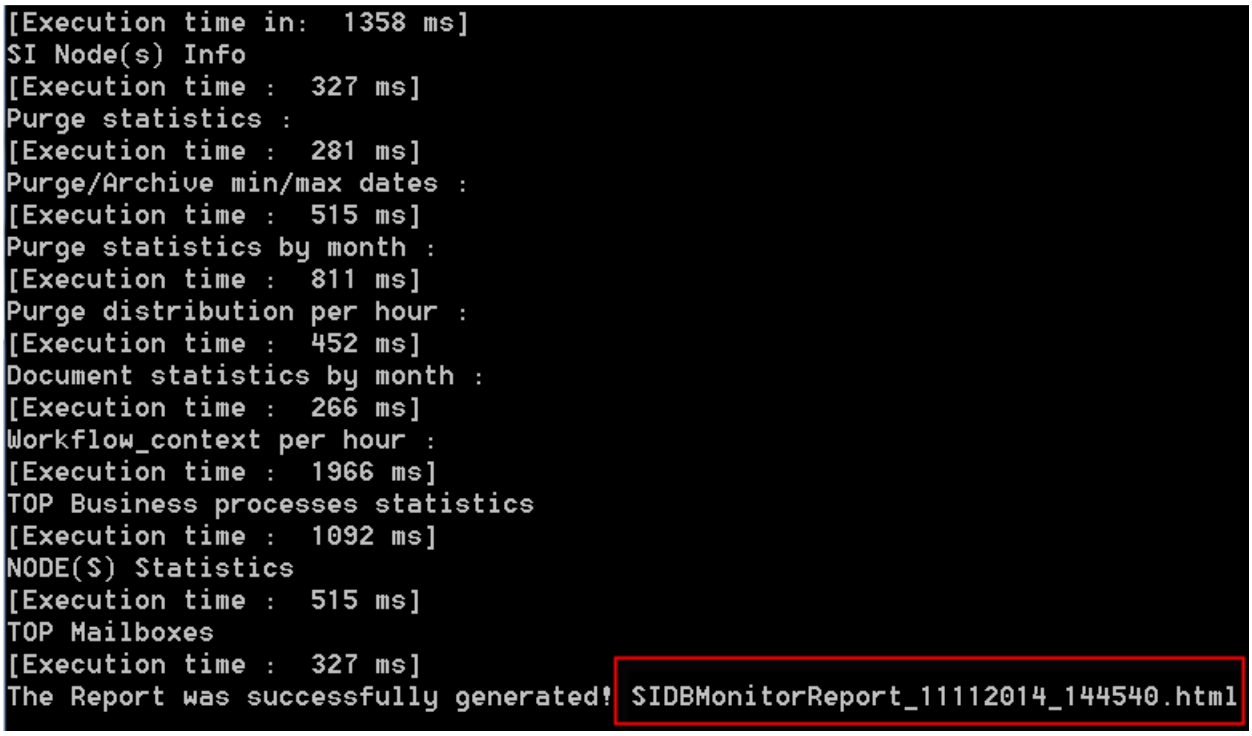
Select the column you need and press F11 to generate the graph:



Full Report mode:

- Edit the SIDBMonitor.properties:
- Change **jdbc.fullReport=true**
- Run the application ./SIDBMonitor.sh (.cmd for Windows)





Screen shots from the full report:

SI build number : **5102** [Execution time in: 258 ms]

Index count : **6621** [Execution time in: 215 ms]

Purge count : **10757062** [Execution time in: 5193 ms]

Eligible Purge count : **1393** [Execution time in: 2429 ms]

Halted BPs count : **1884** [Execution time in: 2168 ms]

Manually Interrupted BPs count : **1** [Execution time in: 175 ms]

Workflow_context per hour :

Count of distinct BPs per hour cumulative :

START TIME HH24	COUNT
00	252330
01	230805
02	220057
03	191361
04	162984
05	95533
06	71109
07	117499
08	84492
09	64611
10	95261
11	48956
12	36873
13	921
14	3048
15	1175
16	35989
17	97214
18	124367
19	95585
20	73156
21	86233
22	79797
23	270866

[Execution time : 91557 ms]

TOP tables info

Top tables (>10k rows) : number of rows and last analyzed data from user_tables :

TABLE NAME	TABLESPACE	NUM ROWS	NUM BLOCKS	LAST ANALAZED
FG_EVENTATTR	SFG_USR_DATA	294356939	11897107	2013-10-23 22:08:55
FG_EVENT	SFG_USR_DATA	110062989	3801872	2013-10-23 22:05:13
MBX_MESSAGE_GUID	SFG_USR_DATA	54423305	294650	2013-10-23 22:10:52
ACT_SESSION_GUID	SFG_USR_DATA	45356212	245036	2013-10-23 22:09:35
TRANS_DATA	SFG_TRANS_DATA	38310134	8510866	2013-10-23 22:06:36
WORKFLOW_CONTEXT	SFG_WRKFLCNTX_DATA	19343264	1227114	2013-10-23 22:03:56
DATA_FLOW_GUID	SFG_USR_DATA	18255244	97562	2013-10-23 22:10:27
ARCHIVE_INFO	SFG_USR_DATA	14469475	87362	2013-10-23 22:01:43
DOCUMENT_LIFESPAN	SFG_USR_DATA	9909041	155904	2013-10-23 22:02:32
WORKFLOW_LINKAGE	SFG_USR_DATA	7683313	55997	2013-10-23 22:01:24
FG_DELIVERY	SFG_USR_DATA	3986532	248616	2013-10-23 22:03:08
FG_ROUTE	SFG_USR_DATA	3986515	187748	2013-10-23 22:02:46
DOCUMENT	SFG_USR_DATA	3833985	138644	2013-10-23 22:02:21
WF_INST_S	SFG_USR_DATA	3793926	138644	2013-10-23 22:02:11
DOCUMENT_EXTENSION	SFG_USR_DATA	3777771	104957	2013-10-23 22:06:48
DATA_FLOW	SFG_USR_DATA	2019963	65177	2013-10-23 22:01:37

NODE(S) Statistics

Count of BP executions per cluster node :

BP COUNT	NODE NAME
935	node1 [m]
281364	node2 [-]
2253799	node1 [-]
843	node2 [p]
4	node2 [p]/node1
37	node2 [m]
1458	node1 [p]
4	node2 [m]/node1
67	node2 [-]/node1

[Execution time : 40948 ms]

Tablespace statistics :

Tablespace statistics (space in MB):

TABLESPACE NAME	TOTAL SPACE MB	USED SPACE MB	FREE SPACE MB	PCT % FREE
SFG_USR_INDEX	1026896	275559	751337	73.17
SFG_TRANS_DATA	987740	69794	917946	92.93
UNDOTBS1	824151	20763	803388	97.48
SFG_USR_DATA	785089	138760	646329	82.33
SFG_RPT_DATA	430013	407750	22263	5.18
SFG_WRKFLCNTX_DATA	335688	9612	326076	97.14
SFG_WRKFLCNTX_INDEX	324608	52812	271796	83.73
SFG_TRANS_INDEX	138408	8416	129992	93.92
SFG_RPT_INDEX	62570	50428	12142	19.41
SYSTEM	31330	6084	25246	80.58
SYSAUX	6660	4295	2365	35.51
SFG_CFG_INDEX	48	3	45	93.75
SFG_CFG_DATA	48	13	35	72.4
USERS	31	3	28	89

[Execution time : 7016 ms]

Purge distribution per hour :

Purge/Archive counts per hour cumulative :

ARCHIVE DATE HH24	COUNT
00	382176
01	292868
02	252406
03	211244
04	262229
05	316863
06	382998
07	406575
08	295414
09	280031
10	291222
11	770719
12	707117
13	628131
14	615785
15	567619
16	578701
17	538605
18	553972
19	576603
20	509916
21	470064
22	459879
23	405087

[Execution time : 7290 ms]

Purge statistics :

Purge statistics : archive_flag : -1 -5 Index, 0 : Backup, 1,2 : Purge

TABLESPACE NAME	ARCHIVE FLAG
1	10756152
-1	4092
-5	2567

[Execution time : 2735 ms]

Purge statistics by month :

Purge/Backup statistics by month :

ARCHIVE DATE MM-YYYY	COUNT
10-2023	40962
10-2013	10717816

[Execution time : 6279 ms]

SI Node(s) Info

Node(s) information

NODE NAME	CREATE TIME	HEARTBEAT TIME	TOKEN	STATUS	EXT STATUS	TYPE	BASE PORT
node4	2013-05-23 13:24:45	2013-05-23 20:41:24	0	0	INACTIVE	ASI	50500
node2	2013-10-23 16:18:06	2013-10-24 10:56:36	0	200	OPS_AVAILABLE	ASI	50000
node2AC2	2012-09-11 09:16:46	2012-09-11 09:16:46	0	0	OPS_STARTING	CONTAINER	-1
node3	2013-05-23 13:25:05	2013-05-23 20:41:13	0	0	INACTIVE	ASI	50500
node1	2013-10-23 16:14:53	2013-10-24 10:57:30	1	200	OPS_AVAILABLE	ASI	50000
node1AC1	2012-09-11 09:05:29	2012-09-11 09:05:29	0	0	OPS_STARTING	CONTAINER	-1

[Execution time : 247 ms]