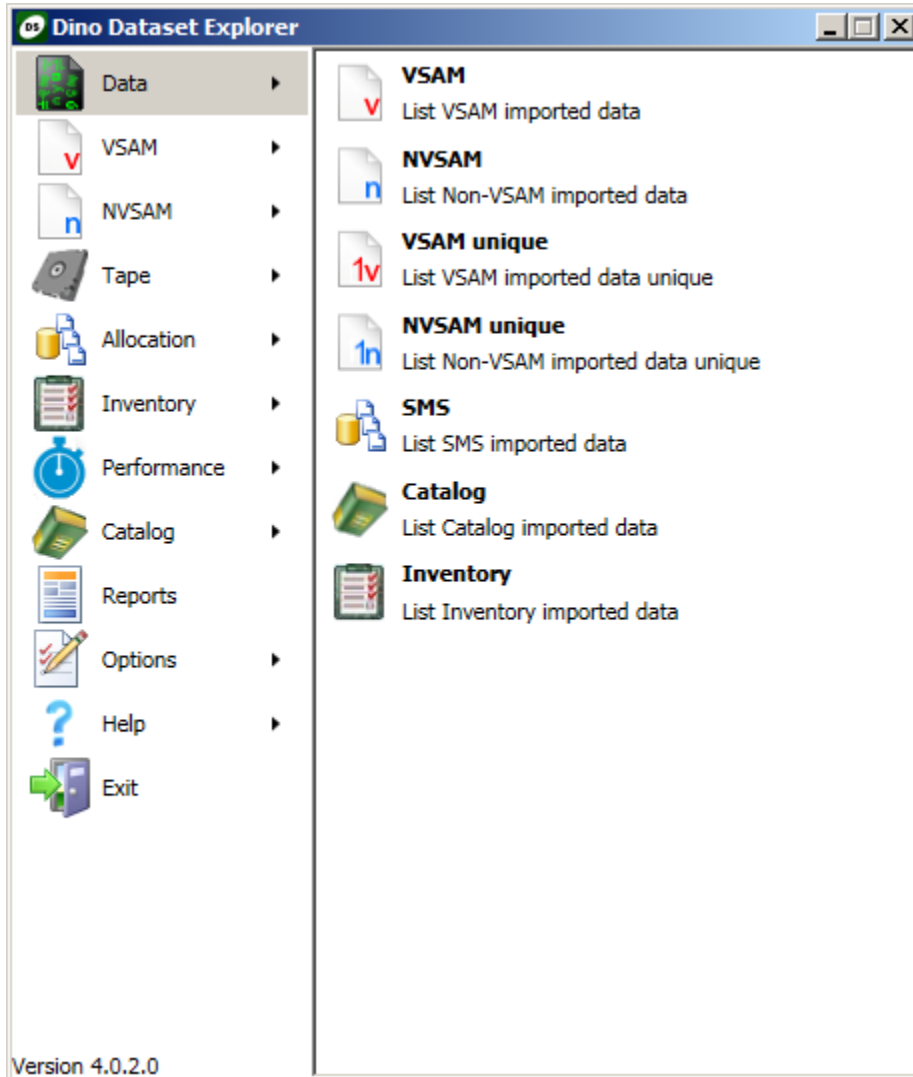




Dataset Explorer Overview

Introduction



“Accounts VSAM and non-VSAM datasets accesses into historical views”

Data Source

Record	Description
SMF 14	Non-VSAM close for INPUT
SMF 15	Non-VSAM close for OUTPUT
SMF 42.6	VSAM and Non-VSAM dataset statistics for SMS files on DASD
SMF 61	Dataset Cataloged (DEFINE)
SMF 64	VSAM component close
SMF 65	Dataset uncataloged (DELETE)
SMF 66	Dataset renamed (ALTER)
DCOLLECT "D"	VSAM and Non-VSAM dataset characteristics on DASD

Inventory - DCOLLECT "D"



Inventory

DCOLLECT "D" records:

- ▣ storage groups
- ▣ VSAM and non-VSAM datasets

Extents
 Stripes
 Block size
 Lrecl
 Alloc (GB)
 Alloc 2nd (GB)
 Used Gb
 Alloc over (GB)
 Total size (GB)
 Comp size (GB)
 Creation date
 Ref. date
 Backup date
 Racf
 SMS
 Temporary
 PDSE
 GDG
 Reblock
 Catalog
 HFS
 Stripe

Storage Group	Extents	Alloc (GB)	Used Gb
	532.879	9.251,43	9.139,97
SG0SIG00	59.467	394,72	375,33
SG2ANATL	1	0,01	0,01
SG2FTLOC	230	95,23	95,23
SG2SUP00	205	1,54	1,53
SGCOMPRT	17.386	409,64	403,55
SGCONTAT	11.138	1.806,16	1.803,74
SGCONTGT	10.023	1.319,29	1.317,16
SGPL	1.631	118,17	109,82
SGPROD	152.790	1.999,75	1.955,53
SGSAGPRD	71.781	1.099,61	1.082,96

DSName
 1st volser
 Vol seq
 Volser
 Storage Group
 SMS data class
 SMS storage class
 SMS management class
 Job name
 Step name
 DSORG
 Rec format

Inventory – SMF 14/15



Allocation

You can get similar results from SMF 14 and 15 that you normally collect:

- non-VSAM only

Application (dsname)	Use count	Extents	Tracks	Size (GB) ▼
PR	28.696	18.018	11.595.655	611,93
DF	41.710	14.409	9.778.667	516,04
SC	25.300	12.953	9.159.548	483,37
GO	28.794	13.205	7.241.005	382,13
CR	22.676	10.593	6.926.467	365,53
BR	20.460	8.797	3.922.438	207,00
MS	22.610	6.419	3.684.287	194,43
MT	24.166	8.072	3.620.014	191,04
RO	22.758	6.539	2.668.184	140,81
CO	22.518	4.769	2.335.217	123,24

Application Inventory



Creation date

List Allocation per Creation date

Group by dataset creation date

Sistema (dsname)	Start time	Use count	Extents	Tracks	Size (GB)
COPE	29/05/2014 00:00:00.00	11.572	7.564	33.037.026	1.743,45
COPE	30/05/2014 00:00:00.00	11.722	7.645	33.348.004	1.759,86
COPE	31/05/2014 00:00:00.00	9.174	3.369	13.468.417	710,76
COPE	01/06/2014 00:00:00.00	16	2	2.000	0,11
COPE	02/06/2014 00:00:00.00	2.406	4.410	20.241.979	1.068,22
COPE	03/06/2014 00:00:00.00	11.632	7.512	32.850.698	1.733,61
COPE	04/06/2014 00:00:00.00	11.750	8.196	35.573.462	1.877,30
COPE	05/06/2014 00:00:00.00	11.766	7.924	34.589.902	1.825,40
COPE	06/06/2014 00:00:00.00	11.720	7.798	33.905.864	1.789,30
COPE	07/06/2014 00:00:00.00	9.178	3.283	13.147.133	693,81
COPE	09/06/2014 00:00:00.00	2.380	4.292	19.666.091	1.037,83
COPE	10/06/2014 00:00:00.00	11.470	7.682	33.028.259	1.742,98
COPE	11/06/2014 00:00:00.00	9.230	3.306	13.181.003	695,59

Dataset Performance

DSName	Start time	IO's	Resp time	Conn time	Pend time	Max RT
SYS1.HASPCKD2	23/04/2012 04:36:21.97	442	3,1357	2,7517	0,1619	25,4720
SYS1.HASPCKD2	23/04/2012 05:36:21.97	452	2,8961	2,5810	0,1606	16,8960
SYS1.HASPCKD2	23/04/2012 06:36:21.97	618	3,2539	2,8786	0,1280	75,1360
SYS1.HASPCKD2	23/04/2012 07:36:21.97	527	3,4696	2,8342	0,1280	129,9200
SYS1.HASPCKD2	23/04/2012 08:36:21.97	481	2,8990	2,6132	0,1280	22,1440
SYS1.HASPCKD2	23/04/2012 09:36:21.97	563	3,4990	3,1150	0,1280	19,9680

Dataset Response times:



Performance

- VSAM and Non-VSAM (SMF 42.6)
- including DB2 components: DB name, table and indexes spaces
- Records on interval basis (same as SMF 30)

Tape Usage

□ Track your tapes



Tape usage

List tape usage records by grouping

Volser	Start time	End time	Use count	Block count
231297	05/06/2014 11:28:21.02	05/06/2014 16:33:31.21	1.121	2.472.357
923927	29/05/2014 00:27:14.39	05/06/2014 04:02:16.66	1.012	47.046.632
903155	28/05/2014 11:17:28.65	10/06/2014 09:18:33.27	1.006	8.234.590
923799	28/05/2014 11:16:35.84	10/06/2014 06:36:30.03	1.000	8.234.590
903156	28/05/2014 11:23:39.26	10/06/2014 09:11:49.57	996	8.229.825
923820	28/05/2014 11:22:13.81	10/06/2014 06:34:41.27	990	8.229.825
199226	01/06/2014 02:30:58.55	01/06/2014 15:26:22.88	974	3.103.051
923977	30/05/2014 00:35:31.95	11/06/2014 05:11:41.57	973	104.583.418
924013	05/06/2014 03:55:51.76	11/06/2014 04:37:18.81	949	41.133.143

Start time	DSName	Volser	Seq count	Rec format	Block size	Lrecl	Block count
29/05/2014 22:45:15.61	M1071.IPMF.S018828.BEAT	199170	1	FB	27.974	142	333
29/05/2014 22:53:58.92	M1071.IPMF.S018828.BEAT	199170	2	FB	27.974	142	382
29/05/2014 22:54:00.97	M1071.IPMF.S018828.BEAT	199170	3	FB	27.974	142	402
29/05/2014 22:54:03.89	M1071.IPMF.S018828.BEAT	199170	4	FB	27.974	142	433
29/05/2014 22:54:06.86	M1071.IPMF.S018828.BEAT	199170	5	FB	27.974	142	433
29/05/2014 22:54:09.82	M1071.IPMF.S018828.BEAT	199170	6	FB	27.974	142	440
29/05/2014 22:54:12.76	M1071.IPMF.S018828.BEAT	199170	7	FB	27.974	142	446
29/05/2014 22:54:15.17	M1071.IPMF.S018828.BEAT	199170	8	FB	27.974	142	441
29/05/2014 22:54:18.12	M1071.IPMF.S018828.BEAT	199170	9	FB	27.974	142	36
29/05/2014 22:54:21.07	M1071.IPMF.S018828.BEAT	199170	10	FB	27.974	142	361
29/05/2014 22:54:24.02	M1071.IPMF.S018828.BEAT	199170	11	FB	27.974	142	432

VSAM Usage

- VSAM usage grouped by application code (DSNAME substring)

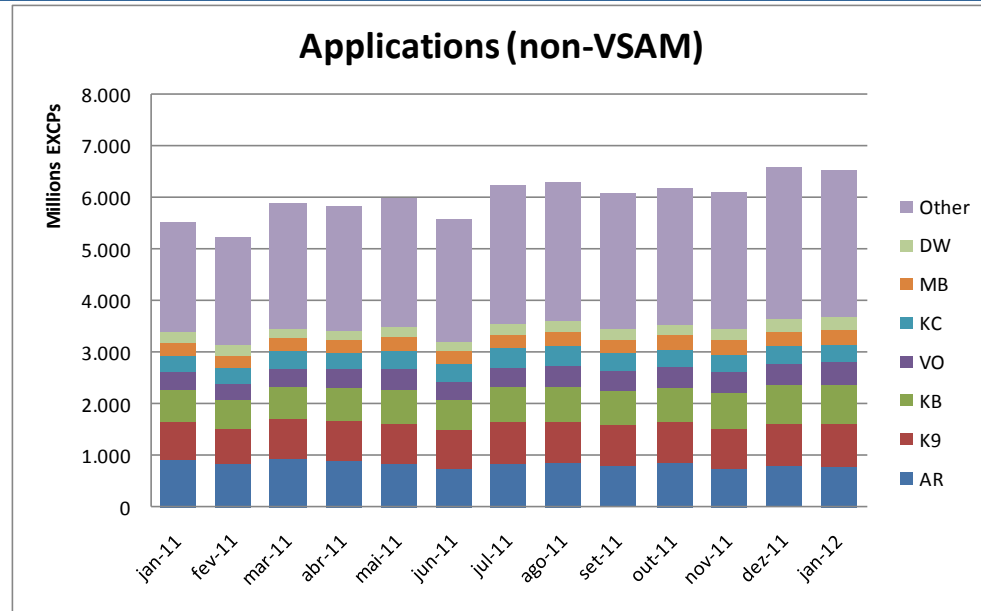
Use count
Level inc
Extent inc
Deletes
Inserts
Updates
Retrieves
CI splits
CA splits

EXCP's count
SIO's
HIT's
Wait's
Physical IO's
CF local
CF Xcf
CF dasd

VSAM Usage														
Sistema	Deletes	%del	Insert	%ins	Updates	%upd	Retrieves	%sel	CI splits	%ci	CA splits	%ca	EXCP's	%io
GRI	1.448	0	21.299	0	2.327.861.546	55	3.055.616.713	4	252	0	4	0	4.668.025.178	34
SOL	1.271.053	8	85.224.145	38	1.486.071.007	35	44.050.393.532	51	6.960.430	42	278.405	48	4.055.064.836	30
DPO	105.924	1	5.128.106	2	204.674.393	5	5.061.165.974	6	1.303.411	8	29.431	5	1.556.423.266	11
VIP	489.130	3	8.759.769	4	45.342.726	1	5.587.945.834	6	2.389.042	14	141.772	24	672.437.809	5
GRM	142	0	28.744.610	13	91.938.059	2	862.909.708	1	4.103.998	25	92.537	16	468.570.668	3
RME	0	0	23.102	0	8.672	0	56.772.786	0	4.057	0	719	0	401.851.067	3
POL	63.938	0	18.048.565	8	17.660.711	0	1.095.536.359	1	75.894	0	2.472	0	367.787.332	3
AGE	13.149.152	83	10.529.530	5	29.050.718	1	21.077.056.248	24	1.022.100	6	417	0	260.596.197	2
ANC	0	0	439.350	0	1.333.564	0	755.354.800	1	148.956	1	2.609	0	216.343.611	2
CAR	160.973	1	465.269	0	1.195.805	0	709.586.472	1	29.905	0	614	0	126.280.105	1
COC	0	0	0	0	20.643.422	0	1.034.620.842	1	0	0	0	0	122.411.608	1
DEB	25.200	0	90	0	22.155.553	1	88.295.523	0	31	0	1	0	111.190.467	1
GFI	520.119	3	59.240.479	26	1.322.412	0	775.911.855	1	172.894	1	18.335	3	94.586.465	1
Outros	2.613	0	7.572.251	3	19.451.592	0	2.137.964.084	2	370.507	2	15.974	3	423.233.306	3
Total	15.789.692		224.196.565		4.268.710.180		86.349.130.730		16.581.477		583.290		13.544.801.915	

Non-VSAM Usage

- Group by application code from DSNNAME pattern
- Could be by JOBNAME as well



DASD x Applications										
Month	AR	K9	KB	VO	KC	MB	DW	Other	Total	%grow
jan-11	919.048.320	727.329.230	617.498.299	351.032.762	320.240.424	246.482.340	211.588.821	2.128.453.316	5.521.673.512	0,00
fev-11	833.655.633	677.806.102	567.305.639	322.293.482	297.365.034	228.604.106	206.330.598	2.121.230.469	5.254.591.063	-4,84
mar-11	940.853.250	760.125.472	631.850.125	359.329.123	336.537.638	254.449.465	193.960.726	2.423.656.487	5.900.762.286	6,87
abr-11	908.819.572	774.424.722	621.305.122	363.465.572	338.309.770	246.834.612	190.854.736	2.408.323.994	5.852.338.100	5,99
mai-11	822.427.581	798.891.499	656.894.457	399.297.694	360.437.617	258.339.380	203.830.124	2.506.940.039	6.007.058.391	8,79
jun-11	736.307.798	743.218.127	600.614.370	358.081.879	327.300.725	247.280.271	190.473.516	2.388.561.137	5.591.837.823	1,27
jul-11	846.096.625	802.491.199	680.761.818	395.292.764	356.353.929	260.218.783	219.152.908	2.670.795.618	6.231.163.644	12,85
ago-11	851.210.208	801.253.545	692.039.079	413.040.247	357.893.146	277.921.970	221.551.718	2.697.791.520	6.312.701.433	14,33
set-11	804.580.900	769.291.890	674.277.416	389.084.002	340.658.635	263.543.259	211.466.078	2.651.162.118	6.104.064.298	10,55
out-11	853.200.356	786.627.541	680.130.839	392.243.444	350.870.577	260.356.883	215.054.246	2.658.512.169	6.196.996.055	12,23
nov-11	744.316.364	785.779.310	688.531.063	397.229.701	350.840.976	260.925.235	219.098.263	2.665.780.508	6.112.501.420	10,70
dez-11	799.657.719	814.483.273	743.626.335	406.721.371	360.379.662	278.015.037	233.389.976	2.950.957.135	6.587.230.508	19,30
jan-12	786.233.518	824.600.336	767.193.239	420.040.883	362.075.565	263.889.031	243.331.935	2.847.035.886	6.514.400.393	17,98

Job Chain



From jobname

Builds a job dependency diagram given a jobname



From dsname

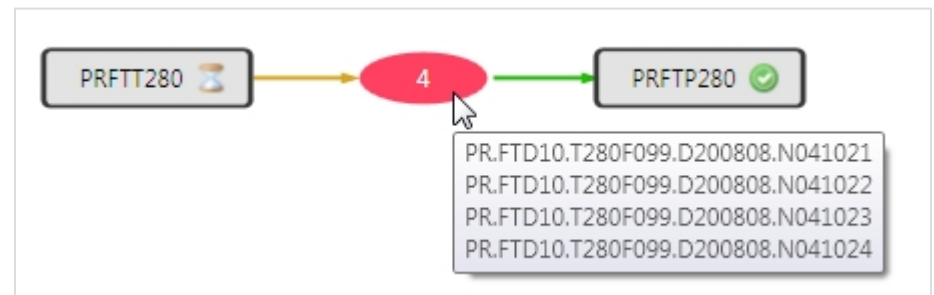
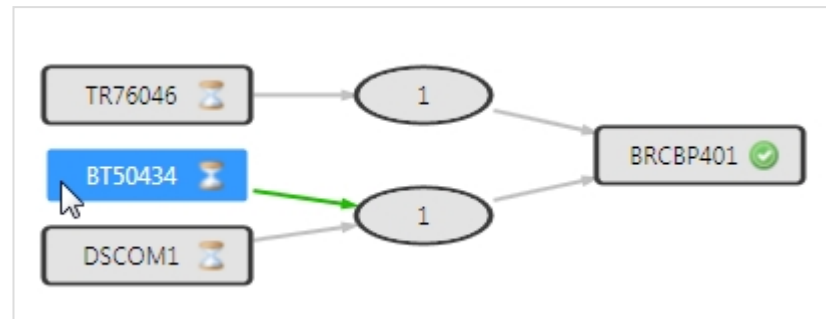
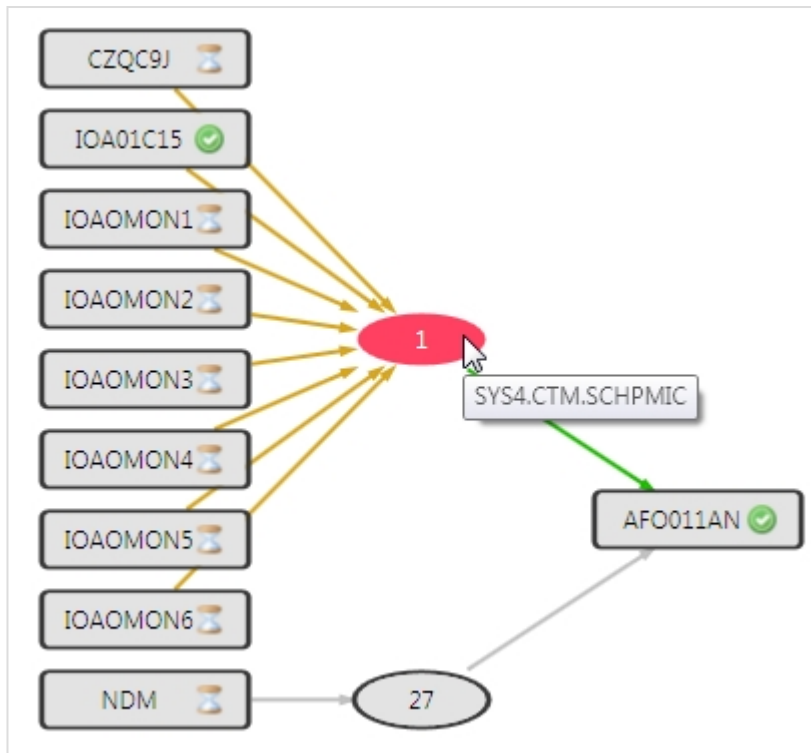
Builds a job dependency diagram given a dsname



From VSAM dsname

Builds a job dependency diagram given a VSAM dsname

Build dependency chart through dataset access (INPUT and OUTPUT)



Catalog operations



Operations

Lists detailed catalog operations

End time	SID	Operation	DSName	Job name	Reader time
21/11/2013 13:02:52.59	BE12	Uncatalog	DXPL.SMFDATA	PARDAL	21/11/2013 10:58:27.49
21/11/2013 13:05:50.33	BE12	Catalog	DXPL.SMFDATA	DUMPX	21/11/2013 13:03:26.83
13/12/2013 08:47:57.59	BE12	Alter	DXPL.V400.DCOLLECT.CITEX.DSN	DXCOLET	13/12/2013 08:47:52.53
13/12/2013 09:05:07.81	BE12	Uncatalog	DXPL.V400.NT	GAZOLA	13/12/2013 08:46:32.49
13/12/2013 09:05:14.76	BE12	Uncatalog	DXPL.V400.NT.SYSC.CSVOUT	GAZOLA	13/12/2013 08:46:32.49
13/12/2013 12:45:04.40	BE12	Scratch	DXPL.V400.UNTERSE	GAZOLA	13/12/2013 12:40:03.32
13/12/2013 13:00:48.91	BE12	Catalog	DXPL.V400.UNTERSE	DXUNTER	13/12/2013 12:45:07.68

- Who delete the dataset?
- What's happened with the dataset?

Contact



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