

VSAM Usage of DASD Space

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VSAM: Virtual Sequential Access Method	
Definition	The Virtual Storage Access Method is a collection of interfaces, commands, and structures along with the programming subsystems that implement them. It is used for storing and retrieving data on disk in IBM e-server mainframe systems, such as VSE, zVM and zOS. Disk storage is typically referred to as DASD; it stands for Direct Access Storage Devices.
Tuning	A twenty to forty percent reduction in CPU time and in I/O activity for critical jobsteps and on-line transactions can be realized when VSAM files and DASD utilization is properly tuned. This reduction in CPU time and in I/O activity will be available as additional system capacity for other jobs.
VSAM Training	Our VSAM courses, will teach the principles required for examining DASD characteristics and determining the techniques for optimizing your VSAM environment.

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VSAM Usage of 3380 DASD Space

CI Size	Block Size Data	Block Size Index	Physical Block/Track Data	Physical Block/Track Index	CI/CA	% Track Used Bytes/Track Data	% Track Used Bytes/Track Index	Bytes/Track Data	Bytes/Track Index
512	512	512	46	46	690	49.61	49	23,552	23,552
1,024	1,024	1,024	31	31	465	66.86	66	31,744	31,744
1,536	1,536	1,536	23	23	345	74.41	74	35,328	35,328
2,048	2,048	2,048	18	18	270	77.65	77	36,864	36,864
2,560	2,560	2,560	15	15	225	80.88	80	38,400	38,400
3,072	3,072	3,072	13	13	195	84.12	84	39,936	39,936
3,584	3,584	3,584	11	11	165	83.04	83	39,424	39,424
4,096	4,096	4,096	10	10	150	86.28	86	40,960	40,960
4,608	4,608	4,608	9	9	135	87.35	87	41,472	41,472
5,120	5,120	5,120	8	8	120	86.28	86	40,960	40,960
5,632	5,632	5,632	7	7	105	83.04	83	39,424	39,424
6,144	6,144	6,144	7	7	105	90.59	90	43,008	43,008
6,656	6,656	6,656	6	6	90	84.12	84	39,936	39,936
7,168	7,168	7,168	6	6	90	90.59	90	43,008	43,008
7,680	7,680	7,680	5	5	75	80.88	80	38,400	38,400
8,192	8,192	8,192	5	5	75	86.28	86	40,960	40,960
10,240	10,240	10,240	4	4	60	86.28	86	40,960	40,960
12,288	6,144	12,288	7	3	52	90.59	77	43,008	36,864
14,336	14,336	14,336	3	3	45	90.59	90	43,008	43,008
16,384	8,192	16,384	5	2	37	86.28	69	40,960	32,768
18,432	6,144	18,432	7	2	35	90.59	77	43,008	36,864
20,480	20,480	20,480	2	2	30	86.28	86	40,960	40,960
22,528	22,528	22,528	2	2	30	94.90	94	45,056	45,056
24,576	6,144	24,576	7	1	26	90.59	51	43,008	24,576
26,624	6,656	26,624	6	1	22	84.12	56	39,936	26,624
28,672	14,336	28,672	3	1	22	90.59	60	43,008	28,672
30,720	6,144	30,720	7	1	21	90.59	64	43,008	30,720
32,768	8,192	32,768	5	1	18	86.28	69	40,960	32,768

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VSAM Usage of 3390 DASD Space

CI Size	Block Size Data	Block Size Index	Physical Block/Track Data	Physical Block/Track Index	CI/CA	% Track Used Bytes/Track Data	% Track Used Bytes/Track Index	Bytes/Track Data	Bytes/Track Index
512	512	512	49	49	735	44.28	43	25,088	25,088
1,024	1,024	1,024	33	33	495	59.64	58	33,792	33,792
1,536	1,536	1,536	26	26	390	70.48	69	39,936	39,936
2,048	2,048	2,048	21	21	315	75.90	74	43,008	43,008
2,560	2,560	2,560	17	17	255	76.80	75	43,520	43,520
3,072	3,072	3,072	15	15	225	81.32	79	46,080	46,080
3,584	3,584	3,584	13	13	195	82.22	80	46,592	46,592
4,096	4,096	4,096	12	12	180	86.74	85	49,152	49,152
4,608	4,608	4,608	10	10	150	81.32	79	46,080	46,080
5,120	5,120	5,120	9	9	135	81.32	79	46,080	46,080
5,632	5,632	5,632	9	9	135	89.45	87	50,688	50,688
6,144	6,144	6,144	8	8	120	86.74	85	49,152	49,152
6,656	6,656	6,656	7	7	105	82.22	80	46,592	46,592
7,168	7,168	7,168	7	7	105	89.50	86	50,176	50,176
7,680	7,680	7,680	6	6	90	81.32	79	46,080	46,080
8,192	8,192	8,192	6	6	90	86.74	85	49,152	49,152
10,240	10,240	10,240	5	5	75	90.36	88	51,200	51,200
12,288	12,288	12,288	4	4	60	86.74	85	49,152	49,152
14,336	7,168	14,336	7	3	52	89.50	74	50,176	43,008
16,384	16,384	16,384	3	3	45	86.74	85	49,152	49,152
18,432	18,432	18,432	3	3	45	97.59	95	55,296	55,296
20,480	10,240	20,480	5	2	37	90.36	70	51,200	40,960
22,528	5,632	22,528	9	2	33	89.45	77	50,688	45,056
24,576	24,576	24,576	2	2	30	86.74	85	49,152	49,152
26,624	26,624	26,624	2	2	30	93.97	92	53,248	53,248
28,672	7,168	28,672	7	1	26	89.50	49	50,176	28,672
30,720	10,240	30,720	5	1	25	90.36	53	51,200	30,720
32,768	16,384	32,768	3	1	22	86.74	56	49,152	32,768

VSAM Usage of 9345 DASD Space

CI Size	Block Size Data	Block Size Index	Physical Block/Track Data	Physical Block/Track Index	CI/CA	% Track Used Bytes/Track Data	% Track Used Bytes/Track Index	Bytes/Track Data	Bytes/Track Index
512	512	512	41	41	615	45.19	43	20,992	20,992
1,024	1,024	1,024	28	28	420	61.72	59	28,672	28,672
1,536	1,536	1,536	21	21	315	69.43	66	32,256	32,256
2,048	2,048	2,048	17	17	255	74.94	72	34,816	34,816
2,560	2,560	2,560	14	14	210	77.15	74	35,840	35,840
3,072	3,072	3,072	12	12	180	79.35	76	36,864	36,864
3,584	3,584	3,584	11	11	165	84.86	81	39,424	39,424
4,096	4,096	4,096	10	10	150	88.17	84	40,960	40,960
4,608	4,608	4,608	8	8	120	79.35	76	36,864	36,864
5,120	5,120	5,120	8	8	120	88.17	84	40,960	40,960
5,632	5,632	5,632	7	7	105	84.86	81	39,424	39,424
6,144	6,144	6,144	6	6	90	79.35	76	36,864	36,864
6,656	6,656	6,656	6	6	90	85.96	82	39,936	39,936
7,168	7,168	7,168	6	6	90	92.58	89	43,008	43,008
7,680	7,680	7,680	5	5	75	82.66	79	38,400	38,400
8,192	8,192	8,192	5	5	75	88.17	84	40,960	40,960
10,240	10,240	10,240	4	4	60	88.17	84	40,960	40,960
12,288	4,096	12,288	10	3	50	88.17	76	40,960	36,864
14,336	14,336	14,336	3	3	45	92.58	89	43,008	43,008
16,384	8,192	16,384	5	2	37	88.17	67	40,960	32,768
18,432	18,432	18,432	2	2	30	79.35	76	36,864	36,864
20,480	20,480	20,480	2	2	30	88.17	84	40,960	40,960
22,528	22,528	22,528	2	2	30	96.99	93	45,056	45,056
24,576	8,192	24,576	5	1	25	88.17	50	40,960	24,576
26,624	6,656	26,624	6	1	22	85.96	55	39,936	26,624
28,672	14,336	28,672	3	1	22	92.58	59	43,008	28,672
30,720	10,240	30,720	4	1	20	88.17	63	40,960	30,720
32,768	8,192	32,768	5	1	18	88.17	67	40,960	32,768

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