

## SMD Disk Drive Formatted Capacities using Tetaco's BMX-3 or DC-297 Disk Controllers with 'Virtual Mapping'

Drive Model	Data Trans Rate MB/sec	Disk Diam	Type	Heads	Cylinders	Max. Sectors (512 B)	Unformatted Capacity in MB	Formatted Capacities (MB & % use of drive)		
								RDOS	AOS or AOS/VS	
									w/o Virtual Mapping	with Virtual Mapping
<b>CENTURY DATA PRODUCTS</b>										
AMS 513	1.28	14"	F	19	845/823	55	514/501	452/440 87.9 %	192/192 74.7 %	192/192/50 84.4 %
AMS 571	1.98	14"	F	19	981/941	56	615/590	534/512 86.8 %	192/192 62.4 %	192/192/96 78 %
<b>PRIAM</b>										
7050	.806	8"	F	5	1050	23	70	61.8 88 %	X 0 %	50 71.4 %
807	1.21	8"	F	11	1552	35	344	305.9 88.9 %	147 42.7 %	277 or 192/96 80.5 % or 83.7 %
808	1.81	8"	F	11	1552	51	516	445.7 86.4 %	147 28.5 %	277 or 192/192/50 53.7 % or 84.1 %
6650	1.04	14"	F	3	1121	35	68	60.2 88.5 %	X 0 %	50 73.5 %
15450	1.04	14"	F	7	1121	35	158	140.6 89 %	73 46.2 %	73 or 50/50 46.2 % or 63.3 %
<b>CONTROL DATA CORP</b>										
FSD 9715-340	1.2	9"	F	24	711	35	344	305 88.6 %	96 28 %	277 80.5 %
FSD 9715-500	1.8	9"	F	24	711	52	516	454 88 %	96 18.6 %	192/192 74.4 %
XMD 9771	1.8	14"	F	16	1024	64 (86)	825	536 65 %	147 17.8 %	604/73 82 %
EMD 9720	1.8	8"	F	10	1217	52	368	324 88 %	147 40 %	277 75 %
<b>FUJITSU</b>										
M2294	1.2	14"	F	16	1024	35	335	293 87 %	147 43.8 %	277 82.6 %
M2312	1.2	8"	F	7	589	35	84	73 87 %	X 0 %	73 87 %
M2298	1.859	14"	F	16	1024	35/35	671.08	536.8 79.9 %	147/147 43.9 %	277/277 82.5 %

B&B

# Non-Virtual Characteristics

Enter Command (? to see choices): L

## CURRENT CONFIGURATION FACTS

	Port 0	Port 1	Port 2	Port 3
Throttle Burst Rate	32	32	32	32
Break Count	0	0	0	0
Sync Byte	223	223	223	223
ECC Enabled	YES	YES	YES	YES
Media Format Type	ZTAL	ZTAL	ZTAL	ZTAL
Interleave Factor	1	1	1	1
Sector Slip Enabled	NO	NO	NO	NO
Data Transfer Method	BMC			
BMC Priority	2			
Dual Port Enabled	NO			

The disks on this controller are:

	<u>DISK</u>	<u>HDS</u>	<u>HDS-REM SECS</u>	<u>PHY. UNIT#</u>	<u>LG. UNIT#</u>
PRT 0	UD-User Defined	5	32	0	0
PRT 1	UD-User Defined	5	32	0	0
PRT 2	UD-User Defined	5	32	0	0
PRT 3	UD-User Defined	5	32	0	0

Enter Command (? to see choices): ?

## COMMAND MENU

### CHANGE CONTROLLER FACTS:

A - Data Transfer Method  
B - BMC Priority  
D - Disk Drive(s)  
P - Dual Porting Flag

### CHANGE DISK PER PORT FACTS:

E - ECC Enable or Disable  
F - Throttle Burst Rate  
G - Throttle Break Count  
I - Interleaving & Sector Slip  
M - Media Format & Sync Byte

### MISCELLANEOUS COMMANDS:

H - HELP (Operations)  
W - HELP (What To Do)  
J - CHANGE ALL controller facts  
K - CHANGE ALL DISK per port facts  
L - LIST all configuration facts  
N - START logging to printer  
O - STOP logging to printer  
Q - QUIT the program  
U - UPDATE EEPROM  
X - SWITCHES (ZETACO Only!)

Enter Command (? to see choices): O

# Virtual Characteristics

Enter Command (? to see choices): L

## CURRENT CONFIGURATION FACTS

	Port 0	Port 1	Port 2	Port 3
Throttle Burst Rate	32	32	32	32
Break Count	0	0	0	0
Sync Byte	223	223	223	223
ECC Enabled	YES	YES	YES	YES
Media Format Type	ZTA2	ZTA2	ZTA2	ZTA2
Interleave Factor	1	1	1	1
Sector Slip Enabled	NO	NO	NO	NO
Data Transfer Method	BMC			
BMC Priority	2			
Dual Port Enabled	NO			

DISK NAME	PHYSICAL				LOGICAL		
	Unit	Total Secs.	Logical Interlv.	Ports 0 1 2 3	Unit	MB	Emulation
ND-New Disk Type	0	70	NO	X X X X	0	147	6161
	1				1	147	6161

Enter the number of a port to examine closer or enter a carriage return or newline to return to the main menu: 0

### \*\*\*\*\* PHYSICAL CHARACTERISTICS \*\*\*\*\*

DISK NAME	Unit	Cyls	Secs	Slipped	Heads	Megs	Split	Method
ND-New Disk Type	0	1646	35	0	10	194	Secs/2;Cyls*2	

### \*\*\*\*\* LOGICAL CHARACTERISTICS \*\*\*\*\*

EMULATION NAME	Unit	Cyls	Secs	Heads	Megs
6161	0	822	35	10	147
6161	1	822	35	10	147

Enter Command (? to see choices): 0  
 ...Logging to the printer ended.

DG Disk Emulations

EMULATION	HEADS	CYLINDER	SECTORS	MB	FAMILY
6061	19	411	24	96	Zebra
6061	19	815	24	190	Zebra
6067	5	815	24	50	Zebra
6160	5	823	35	73	Kismet
6160	10	823	35	147	Kismet
6122	19	815	35	277	Vulcan
6214	40	843	35	602	Kismet

NOTES:

Figuring sectors:

$$\text{Sectors} = \frac{\text{Bytes/Track}}{576 \text{ min. (10MHZ Transfer)}}$$

576 min. (10MHZ Transfer)

Example  $35 = \frac{20,160}{576}$

Figuring formatted capacity:

$$\text{MB} = \text{Hds} \times \text{cyl} \times \text{Sec.} \times 512 \text{ (Data-DG)}$$

Figuring Transfer:

$$\text{MB/Sec} \times 8 \text{ bits/sec.} = \text{Mbits/Sec.} - \text{MHZ}$$

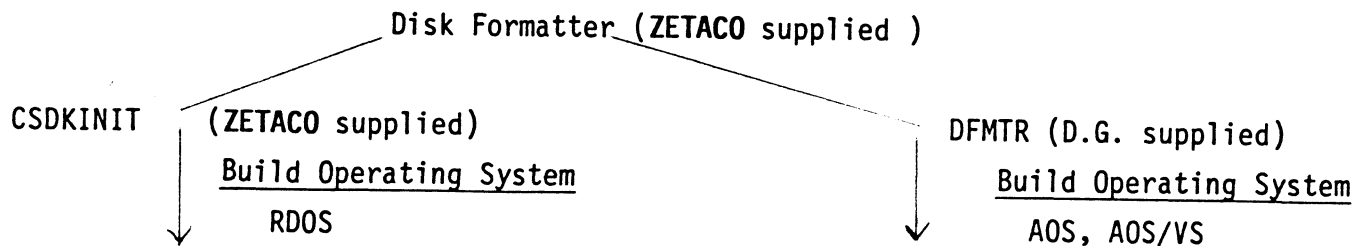


TABLE 3.1

1. DG EMULATION GROUPS

ZEBRA - 4 logical (AOS, AOS/VS)				(4 logical RDOS)		FORMATTED
	CYLINDERS	HEADS	SECTORS	BLOCK SIZE	SYMBOL	CAPACITY
6060	411	19	24	187,416	Z0	96
6061	815	19	24	371,640	Z1	190
6067	815	5	24	97,800	Z7	50
KISMET - 2 logical (AOS,AOS/VS)				(4 logical RDOS)		FORMATTED
	CYLINDERS	HEADS	SECTORS	BLOCK SIZE	SYMBOL	CAPACITY
6160	823	5	35	144,025	K0	73
6161	823	10	35	288,050	K1	147
6214	843	40	35	1,180,200	K4	602
VULCAN - 4 logical (AOS,AOS/VS)				(4 logical RDOS)		FORMATTED
	CYLINDERS	HEADS	SECTORS	BLOCK SIZE	SYMBOL	CAPACITY
6122	815	19	35	541,975	V	277