

H8 System Configuration

The H8 is populated with:

H17 hard-sectored floppy	Port 174Q
H37 soft-sectored floppy	Port 170Q
Z67-IDE+	Port 274Q
H8-Speed card	Port 220Q, (2, 4, 8 and 10 MHz)
H8-4 Serial card	Port 320Q, {DCE} Port 330Q, {DTE modem port} Port 340Q, {DCE printer port} and Port 350Q, {terminal port}
USB Interface board	Port 260Q, USB serial to a PC and Port 261Q, VDIP USB for memory stick read/write Port 262Q, Status
H8 Real-Time Clock.	Port 240Q

In order to be able to read and write to all of these devices, we have to recognize that any boot is limited to two drive types – one floppy type and the Z67-IDE+ boot system. Therefore, it boots HD0 into the H37/Z67-IDE+ combination since the H37 is twice as fast as the H17 and holds four times as much data. Booting HD1 will get the H17/Z67-IDE+ combination. The HD boots will run with a CPU clock of 2, 4, 8 or 10 MHz and the system can access all devices without having to manually change the CPU clock rate.

The QuikStor formatted hard disk will support 15 partitions. On HD0 and HD1, all System Selector positions sport 15 partitions totaling 120 MB space on each hard disk.

System 1 through 14 are QS-CP/M with fifteen partitions of 8 MB each available on both HD0 and HD1 for a total space of 240 MB. Any four partitions may be mounted at a time for 32 MB on line for programs and data.

For HDOS systems are on System Selector positions 15 through 29. Each position provides three system boots into HDOS. The 120 MB on each hard disk is divided into three CATEGORIES (4, 5 and 6) providing 40 MB on HD0 and another 40 MB on HD1 for each category. Each category is further divided into five HDOS drives on HD0 and five HDOS drives on HD1. This results in 10 drives that can be simultaneously mounted in each category for 80 MB storage. The boot HD will be SY0: through SY4:. The other HD will be DY0: through DY4:. The first partition on each HD is a system boot as described above with HD0 supporting H37/Z67 and HD1 supporting H17/Z67 drives.

Below is the partitioning map for the setup:

SASIX Partitioning:

Error-len	2	Hds	8	Cyls	3884	Z67 Port 274Q	BCh
Seek-type	4	Wcom	3884	Wreduc	3884		

Max blocks	64 kB/Block	1875
1/3 Max		625

QS-CP/M	Partitioning	--	System Selector Switch Positions 1 through 14			
HD0:						HD1:
						Partition

Partition #	NAME	CAT	WP	ORIGIN	SIZE	#	NAME	CAT	WP	ORIGIN	SIZE
0	Z67/H37 Boot	2	0	2	125	0	Z67/H17 Boot	2	0	2	125
1		2	0	127	125	1		2	0	127	125
2		2	0	252	125	2		2	0	252	125
3		2	0	377	125	3		2	0	377	125
4		2	0	502	125	4		2	0	502	125
5		2	0	627	125	5		2	0	627	125
6		2	0	752	125	6		2	0	752	125
7		2	0	877	125	7		2	0	877	125
8		2	0	1002	125	8		2	0	1002	125
9		2	0	1127	125	9		2	0	1127	125
10		2	0	1252	125	10		2	0	1252	125
11		2	0	1377	125	11		2	0	1377	125
12		2	0	1502	125	12		2	0	1502	125
13		2	0	1627	125	13		2	0	1627	125
14		2	0	1752	125	14		2	0	1752	125

Total				1875	64k blocks					1875	64k blocks
				120	Megabytes					120	Megabytes

QS-HDOS Partitioning		--	System Selector Switch Positions 15 through 29									
HD0:			HD1:									
Drv -- Serial				Origin	Size				Origin	Size	Drv -- Serial	
SY0: -- 001	HDOS-H37-4	4	0	2	40				HDOS-H17-4	4	0	DY0: - 006
SY1: -- 002	HDOS1-CAT4	4	0	42	80				HDOS5-CAT4	4	0	DY1: - 007
SY2: -- 003	HDOS2-CAT4	4	0	122	105				HDOS6-CAT4	4	0	DY2: - 008
SY3: -- 004	HDOS3-CAT4	4	0	227	200				HDOS7-CAT4	4	0	DY3: - 009
SY4: -- 005	HDOS4-CAT4	4	0	427	200				HDOS8-CAT4	4	0	DY4: - 010
SY0: -- 001	HDOS-H37-5	5	0	627	40				HDOS-H17-5	5	0	DY0: - 006
SY1: -- 002	HDOS1-CAT5	5	0	667	80				HDOS5-CAT5	5	0	DY1: - 007
SY2: -- 003	HDOS2-CAT5	5	0	747	105				HDOS6-CAT5	5	0	DY2: - 008
SY3: -- 004	HDOS3-CAT5	5	0	852	200				HDOS7-CAT5	5	0	DY3: - 009
SY4: -- 005	HDOS4-CAT5	5	0	1052	200				HDOS8-CAT5	5	0	DY4: - 010
SY0: -- 001	HDOS-H37-6	6	0	1252	40				HDOS-H17-6	6	0	DY0: - 006
SY1: -- 002	HDOS1-CAT6	6	0	1292	80				HDOS5-CAT6	6	0	DY1: - 007
SY2: -- 003	HDOS2-CAT6	6	0	1372	105				HDOS6-CAT6	6	0	DY2: - 008
SY3: -- 004	HDOS3-CAT6	6	0	1477	200				HDOS7-CAT6	6	0	DY3: - 009
SY4: -- 005	HDOS4-CAT6	6	0	1677	200				HDOS8-CAT6	6	0	DY4: - 010
Totals:	80 Mb on HD0			1875	625	in Cat 4			80 Mb on HD1			1875
	80 Mb on HD0				625	in Cat 5			80 Mb on HD1			625
	80 Mb on HD0				625	in Cat 6			80 Mb on HD1			625