

QS-HDOS Setup on H8 for H17 & H37 support with Z67-IDE(+):

This procedure will install HDOS on a QuikStor formatted Hard Disk. The target drive can be either HD0 or HD1. The systems can be built from either floppy type and can be modified to work with the other floppy type by replacing the driver (DK.DVD) on the boot partitions of the hard drive.

Booting from the hard disk, SY.DVD will provide access to partitions in the CATEGORY on the boot disk and DY.DVD will provide access to partitions in the CATEGORY on the other hard disk. DK.DVD will be the floppy driver (for H17 or H37 type).

Creating the “QS-HDOS SETUP FLOPPY DISK”

1. INIT and SYSGEN a floppy disk with your HDOS system.
2. Ensure the floppy has the following files:

INIT.ABS (or INITAUTO.ABS)	SYSGEN.ABS	FLAGS.ABS
ERRORMSG.SYS	SET.ABS	

3. Copy DKXBC.DVD to the floppy as DK.DVD.
4. Copy DVDDKGEN.ABS and SASIX.ABS to the floppy disk.
5. Reboot the floppy to load the new DK.DVD driver.
6. Run:

=>SET DK: HELP<cr>”.

HELP: DKXBC V4221.1035/-C Set Options:

PORT nnnQ	=170Q/78H	Port address
DRIVE n	=0	Drive number
CONTROLLER n	=0	Controller number
CATEGORY n	=4	Category number

=>

The PORT number must be set to the Z67 SASI cards port number. The DRIVE number will be set for the target hard disk drive (0 or 1). The CONTROLLER will be set to 0 if only one controller is installed. The CATEGORY will be set for the system to be created (4 to 7).

7. Run:

=>DVDDKGEN DKn:<cr> where n is the maximum number of partitions in the system (0 to 7, zero based) to be created.

Creating OS-HDOS Hard Disk Partitions:

8. Run SASIX and set:
Port 78H (170Q), 7CH (174Q), B8H (270Q), BCH (274Q) ; port for Z67 SASI
Drive (0 or 1)
9. Press the BLUE function key to 'Read table'.
10. Set:
Error-len: 2
Heads: (based on HD - from Z67-IDE Diagnostic Display)
Cylinders: (based on HD - from Z67-IDE Diagnostic Display)
Seek-type: 4
Wcomp: (same as cylinders)
Wreduc: (same as cylinders)
11. Enter the following for each partition to be defined:
Name: (as desired, no duplicates)
Cat based on OS
WP 0 (read/write), 1 (write protected)
Origin: (previous origin + previous partition size)
Size: (number of 64k blocks)
12. When all desired partitions are defined, press f1 key to 'Write track'. SASIX will close if no errors.

Installing HDOS to the OS-HDOS partitions:

13. HDOS systems uses CAT 4 through 7 to allow defining multiple systems on the same hard disk. The **CAT** that is to be set-up must be **SET** in the floppy's DK.DVD:

SET DK: CATEGORY n ; (4 to 7)

Categories are like partitions in that each category is independent of the others.

14. SET the CATEGORY prior to starting a new category.
15. Run INIT (or INITAUTO) for the boot partition specifying the drive (DK0:).
16. Run SYSGEN to install the boot system on each new boot partition (DK0:).
17. Repeat steps 15 through 17 for each category.
18. Copy UTILITIES (such as INIT.ABS, SYSGEN, etc.) to each boot partition.
19. Boot the Z67-IDE(or +) and select the first partition of a CATEGORY. (Press the SPACE BAR on the first boot.)
20. Run INIT (or INITAUTO) to format partitions SY1: through SYn:.
21. Repeat 18 & 19 for each boot system just created.

Creating Partitions on the Other Hard Disk

22. Repeat steps 6 through 12 with the **DRIVE** set to **1** to create partitions in the categories on HD1.
23. Repeat steps 13 to 21 with DK.DVD **DRIVE** set to **1** for installing HDOS Boots on HD1.

Using Partitions on both HD0 & HD1

24. Boot your hard disk HDOS system.
25. Copy the hard disk's SY.DVD to DY.DVD.
26. Reboot the system to load the DY.DVD.
27. Set the **DRIVE #** for DY.DVD to the other hard disk (1 if working on HD0 or 0 if working on HD1).
28. DYn: is used to mount, read and write to the partitions on the other hard disk (HD1 or HD0) for the CATEGORY.
29. Repeat this procedure for the other floppy type if dual booting for H17 & H37 support.

NOTE: The system on the other HD can be generated from either floppy boot disk if the DK.DVD on the hard disk is replaced with the correct floppy driver.

Partition Table for H8 – Booting for H17 & H37 Support

Max blocks 1875
 1/3 Max 625

		HD0				HD1					
Desig -- Serial		Cat	WP	Origin	Size	Cat	WP	Origin	Size	Desig -- Serial	
SY(DY)0: -- 001	HDOS-H37-Boot4	4	0	2	40	HDOS-H17-Boot4	4	0	2	40	SY(DY)0: - 006
SY(DY)1: -- 002	HDOS1-CAT4	4	0	42	80	HDOS6-CAT4	4	0	42	80	SY(DY)1: - 007
SY(DY)2: -- 003	HDOS2-CAT4	4	0	122	105	HDOS7-CAT4	4	0	122	105	SY(DY)2: - 008
SY(DY)3: -- 004	HDOS3-CAT4	4	0	227	200	HDOS8-CAT4	4	0	227	200	SY(DY)3: - 009
SY(DY)4: -- 005	HDOS4-CAT4	4	0	427	200	HDOS9-CAT4	4	0	427	200	SY(DY)4: - 010
SY(DY)0: -- 001	HDOS-H37-Boot5	5	0	627	40	HDOS-H17-Boot5	5	0	627	40	SY(DY)0: - 006
SY(DY)1: -- 002	HDOS1-CAT5	5	0	667	80	HDOS6-CAT5	5	0	667	80	SY(DY)1: - 007
SY(DY)2: -- 003	HDOS2-CAT5	5	0	747	105	HDOS7-CAT5	5	0	747	105	SY(DY)2: - 008
SY(DY)3: -- 004	HDOS3-CAT5	5	0	852	200	HDOS8-CAT5	5	0	852	200	SY(DY)3: - 009
SY(DY)4: -- 005	HDOS4-CAT5	5	0	1052	200	HDOS9-CAT5	5	0	1052	200	SY(DY)4: - 010
SY(DY)0: -- 001	HDOS-H37-Boot6	6	0	1252	40	HDOS-H17-Boot6	6	0	1252	40	SY(DY)0: - 006
SY(DY)1: -- 002	HDOS1-CAT6	6	0	1292	80	HDOS6-CAT6	6	0	1292	80	SY(DY)1: - 007
SY(DY)2: -- 003	HDOS2-CAT6	6	0	1372	105	HDOS7-CAT6	6	0	1372	105	SY(DY)2: - 008
SY(DY)3: -- 004	HDOS3-CAT6	6	0	1477	200	HDOS8-CAT6	6	0	1477	200	SY(DY)3: - 009
SY(DY)4: -- 005	HDOS4-CAT6	6	0	1677	200	HDOS9-CAT6	6	0	1677	200	SY(DY)4: - 010
Total				1875				1875			
				625	in Cat 4			625	in Cat 4		
				625	in Cat 5			625	in Cat 5		
				625	in Cat 6			625	in Cat 6		

Notes:

1. The BOOT partitions are small to reduce wasted space since most HDOS programs are quite small.
2. Partitions greater than 40 blocks will not display the correct remaining space until the remaining sectors are less than 9999 (~2.5 MB).
3. All ten partitions in a Category can be mounted at the same time (SY0: through SY4: on boot disk and DY0: through DY4: for other hard disk) for access to 80 MB disk space.
4. In order to use the QS-Boot Menu, all of the DIP switches on the Z67 SASI card must be set to **ON**.