

RAM Drive

What ? Why ? How ?

RAM Drive - WHAT ?

Reserving part of the RAM memory
to be provide temporary systems storage,

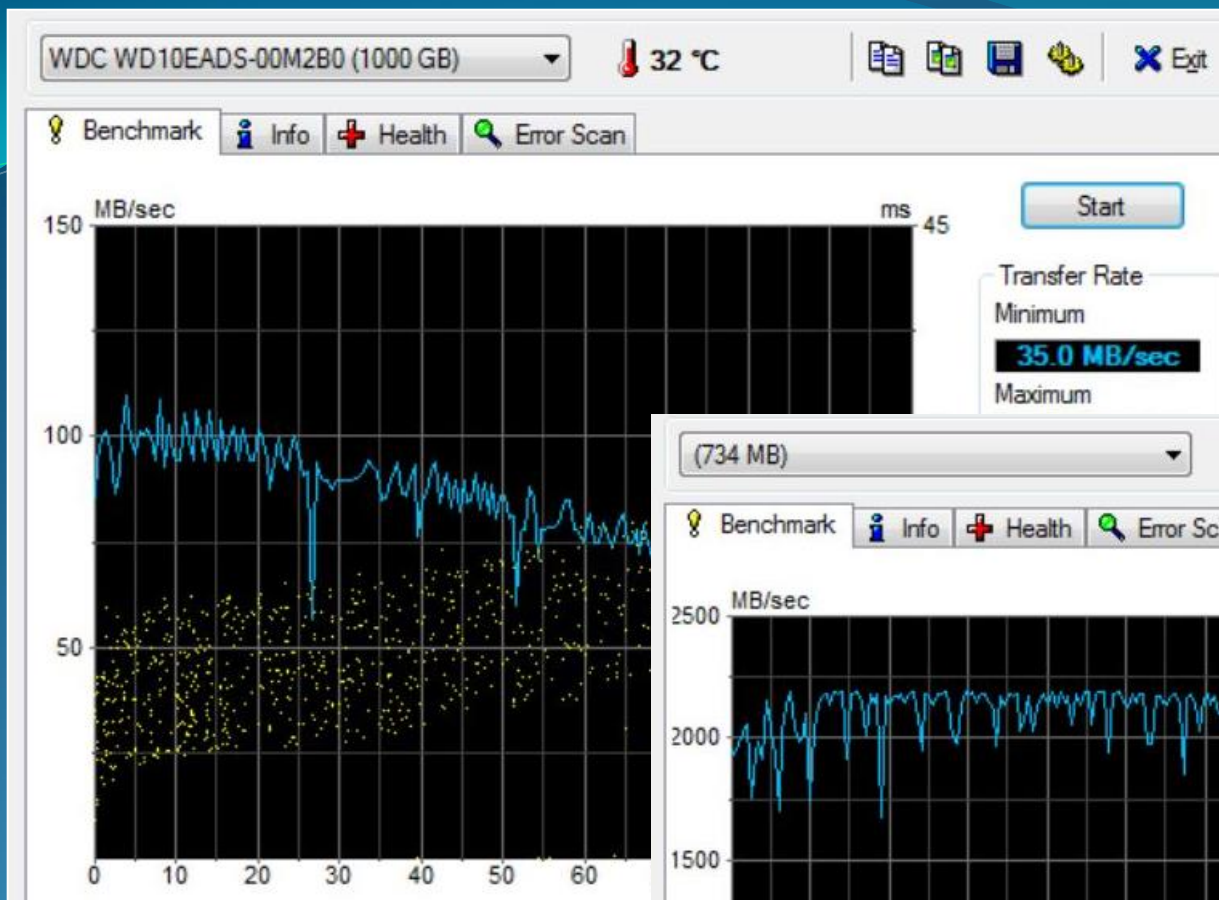
usually allocated to a Hard Drive . . .

RAM Drive - WHY ?

Reserving part of the **FAST** RAM memory
to be provide temporary systems storage,

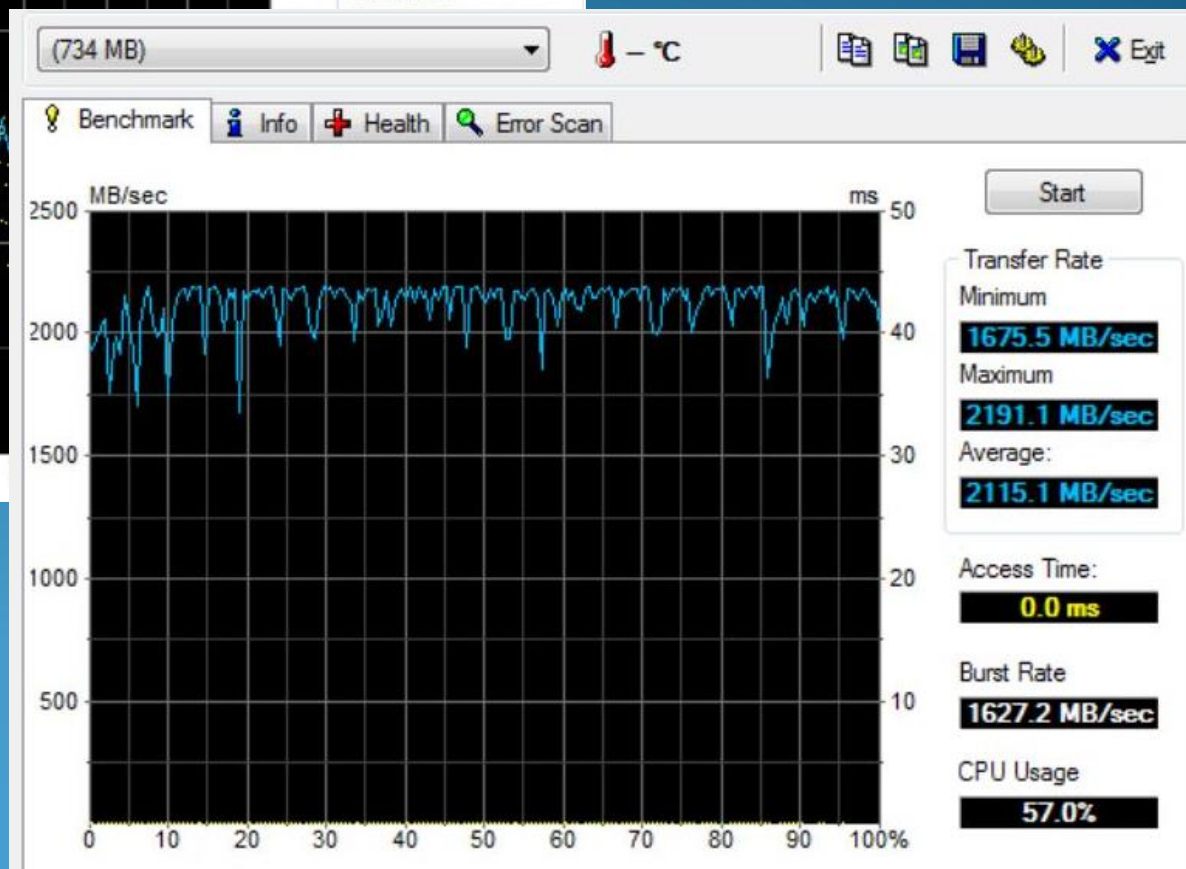
usually allocated to a **much-slower** Hard Drive

...



***** Hard Drive**

Transfer 100->50 MB/sec
Access 14.7 ms



***** RAM Drive**

Transfer 2,100 MB/s
Access 0 ms

RAM Drive : No Access Delay, 20 - 40x faster Transfers

Home Desktop – “Disk” Drives

Disk 0 Basic 931.51 GB Online	Win7-1T (D:) 55.55 GB NTFS Healthy (Active, Prima	Win7-1T-B (F:) 56.93 GB NTFS Healthy (Primary Parti	Spare-1T (E:) 58.86 GB NTFS Healthy (Primary Partit	Data-1T (G:) 226.87 GB NTFS Healthy (Logical Drive)	Hold-1T (K:) 533.31 GB NTFS Healthy (Page File, Logical
Disk 1 Basic 55.90 GB Online	Win7-1T-SSD (C:) 55.90 GB NTFS Healthy (System, Boot, Active, Crash Dump, Primary Partition)				
Disk 2 Basic 699 MB Online	RAM DISK (Z:) 697 MB FAT32 Healthy (Primary Partition)		2 M Una		

Device Performance Comparison

Device	Size	Av Xfer MB/sec	Access Time milliseconds
USB - Flash	8 G	19	0.6
USB - External HD	2 T	33	15.7
Laptop Internal HD	160 G	35	17.5
WD Internal Sata HD	1 T	80	14.6
Samsung - eSata HD	1 T	87	15.3
SSD eSata	60 G	110	0.1
SSD Internal Sata	60 G	200	0.1
RAM-Drive	750 M	2,110	0

RAM Drive - HOW ?


- Download and Install Software
 - eg. DataRam RAMDrive (free)
- Configure for PC - amount of memory (20%)
- Assign Drive Letter (recommend Z:)
- Change Temp and TMP locations to RamDrive
- Maybe also temporary files from other Apps . . .

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What is RAMDisk?

RAMDisk is a program that takes a portion of your system memory and uses it as a disk drive. The more RAM your computer has, the larger the RAMDisk you can create.

What is the benefit?

In a word: **SPEED!** The performance of a RAMDisk, in general, is orders of magnitude faster than other forms of storage media, such as an SSD (up to 100X) and hard drive (up to 200X).

Most users use RAMDisk to speed up applications like:

- Games
- Browser cache for faster web surfing
- Audio and Video editing
- CAD programs
- Software compilers
- Databases
- Speeding up CD duplication
- SETI processing
- TEMP files
- Swap space
- Web server cache
- Security - all information can be wiped upon power loss or shutdown
- Custom applications with high I/O, high bandwidth, or high security requirements

S/W from :
Dataram.com

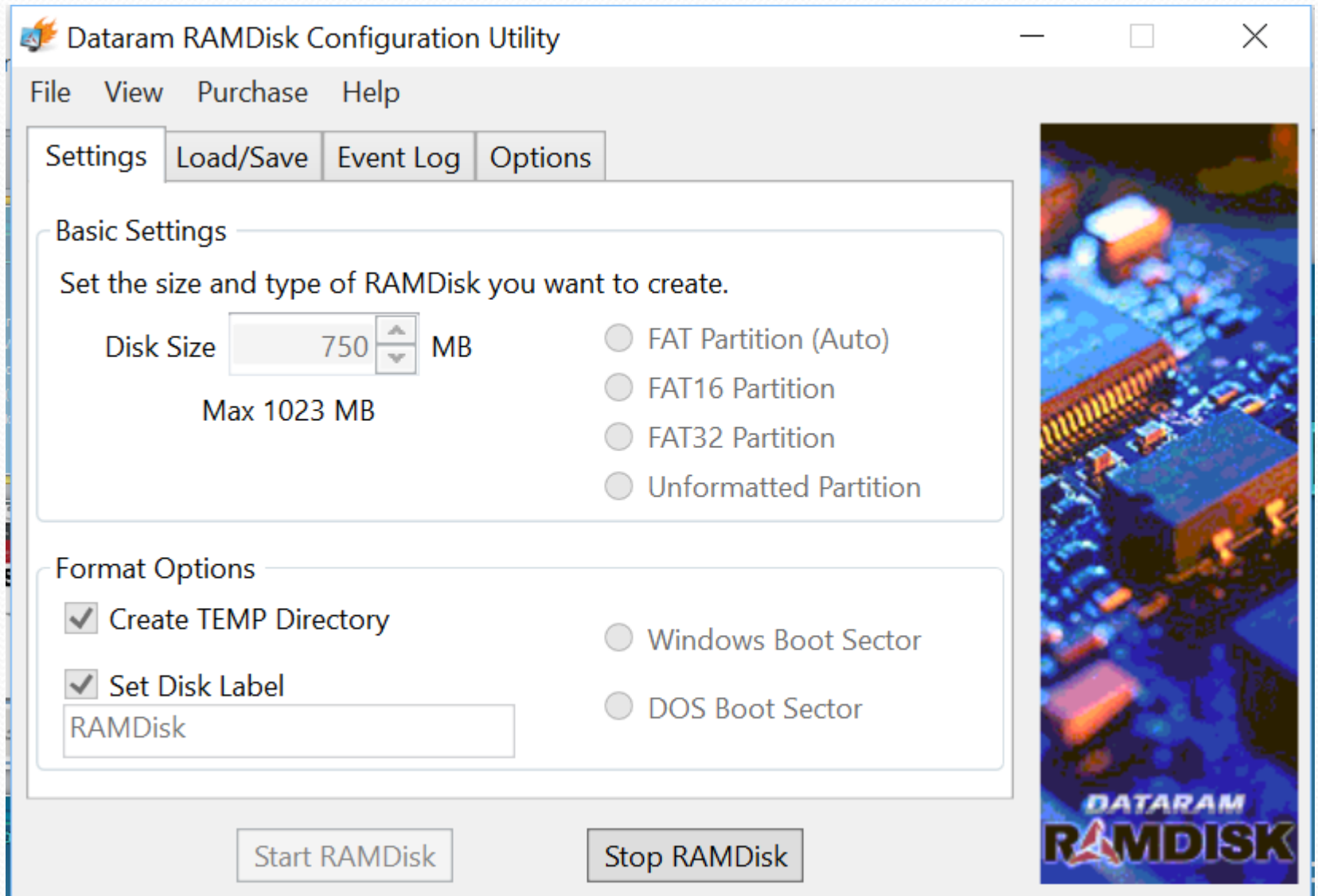
RAMDisk Software

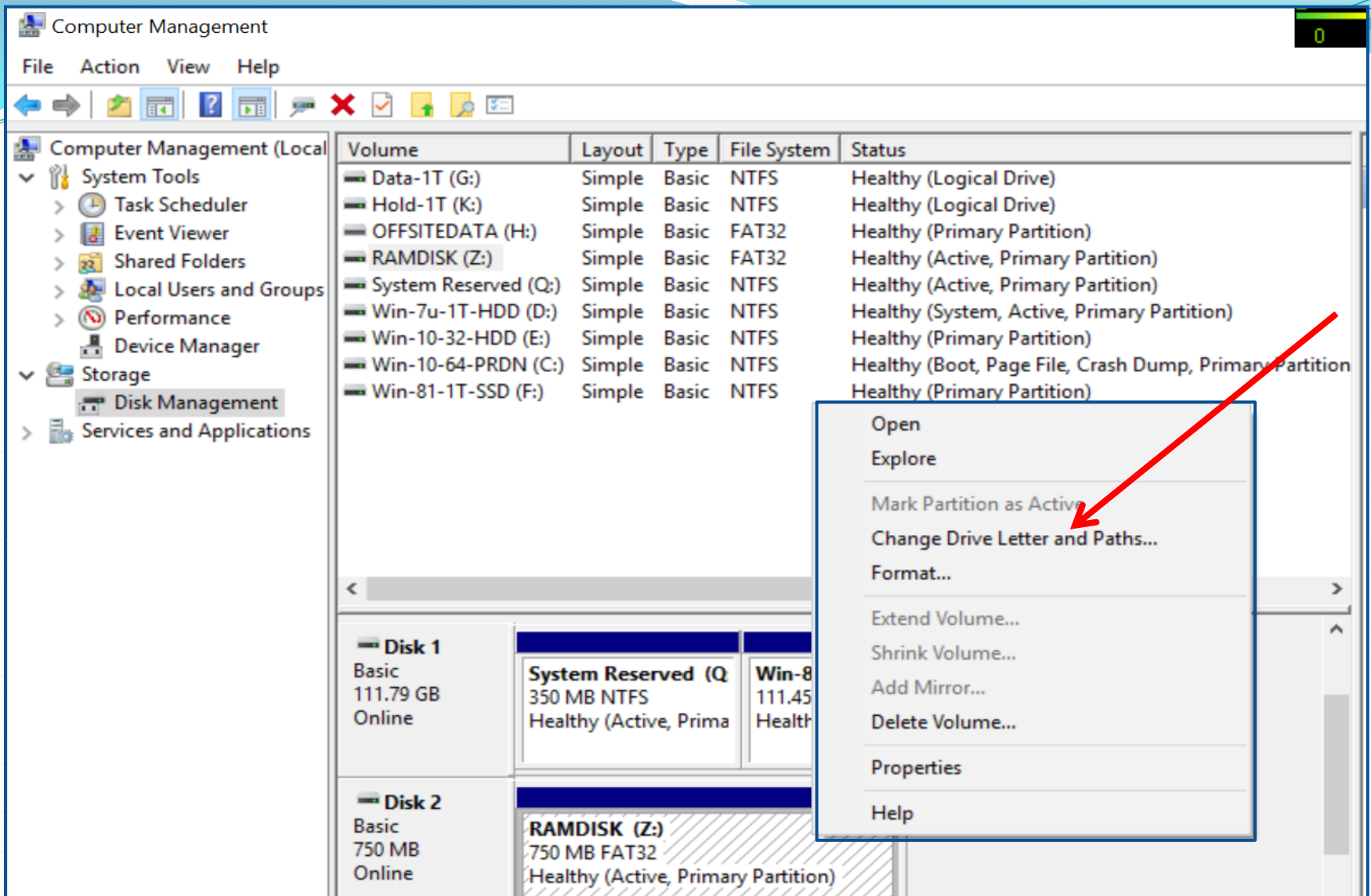
RAMDisk is offered as "freeware" for personal use and will allow you to create disks up to 1 GB in size. Some features not enabled and require the purchase of a license key to be enabled. *For personal use only.* "100% CLEAN award granted by Softpedia"

DOWNLOAD SOFTWARE

V4_4_0_RC36
February 10, 2016

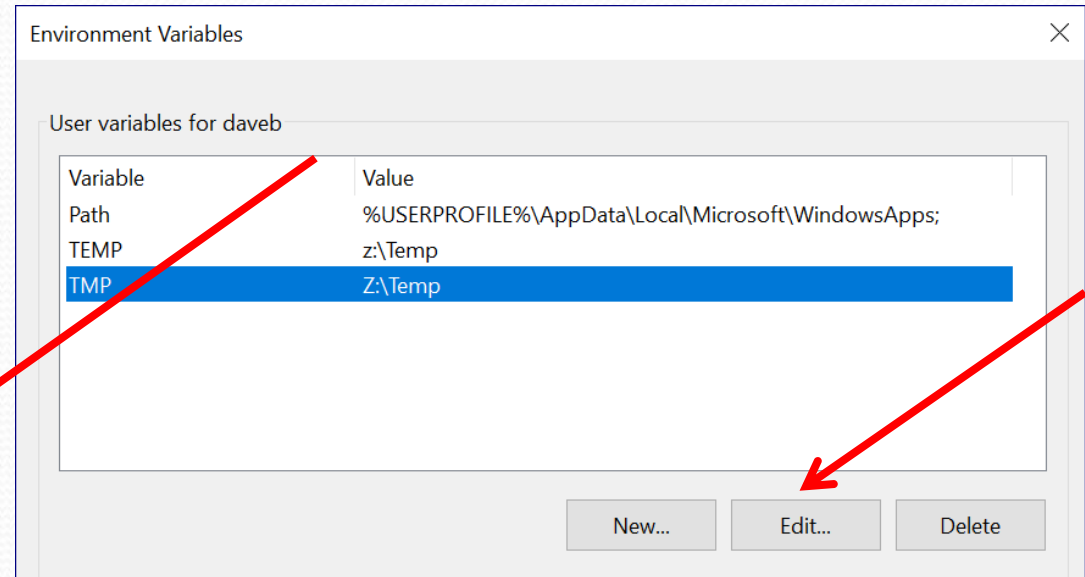
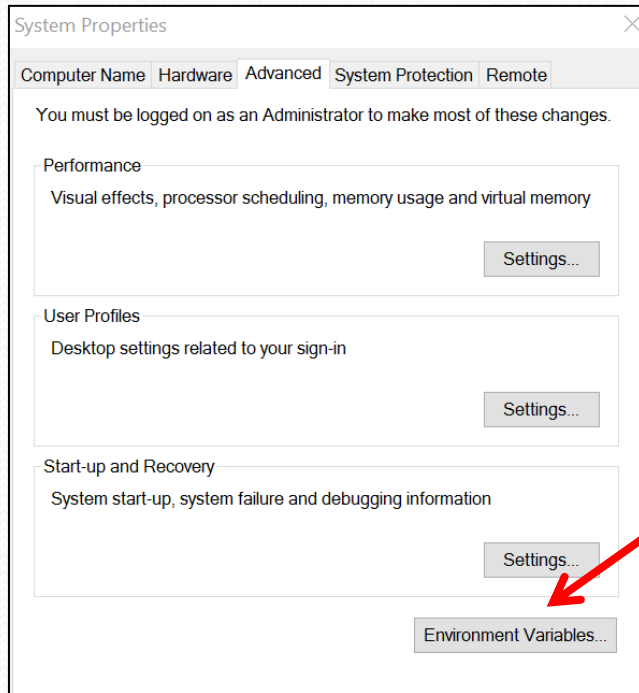
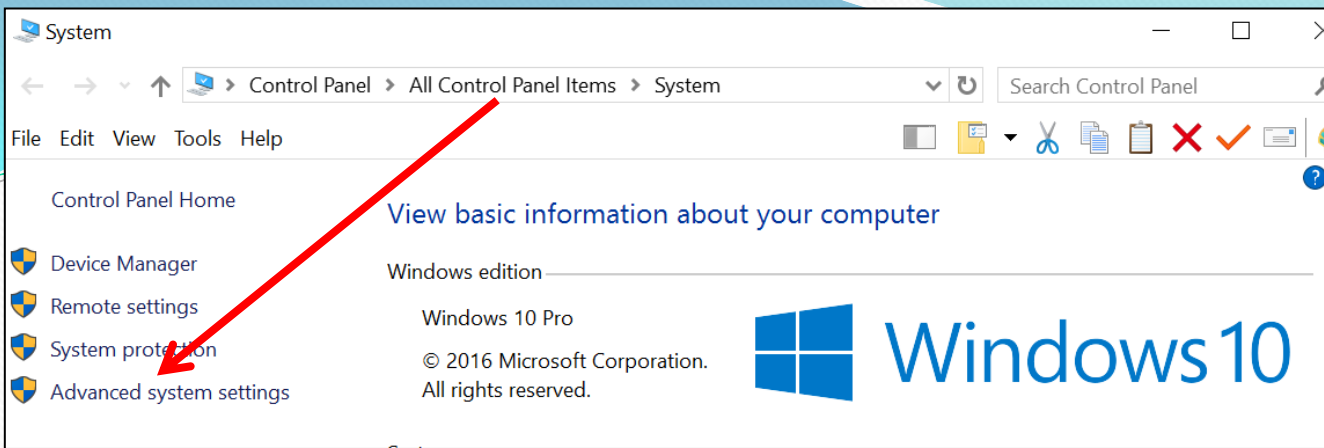
Install and configure RAMDisk





Control Panel / Admin Tools / Computer Mgmt / Disk Mgmt → Screen

... Rt Click on RAMDISK -> Change Drive Letter option, assign to Z:



**Control Panel / System / Advanced / Environment Variables -> Screen as above,
... then Edit TEMP and TMP from C:\Temp to Z:\Temp**

Summary

- Adding RamDrive speeds up TEMP file usage as used by MS-Office etc
- Trade off on RAM Memory usage hence 20% recommendation
- Wiped clean at each restart . .
- Useful resource for other temp files (Video Editing)

. . . Slightly complex, but very Useful . .