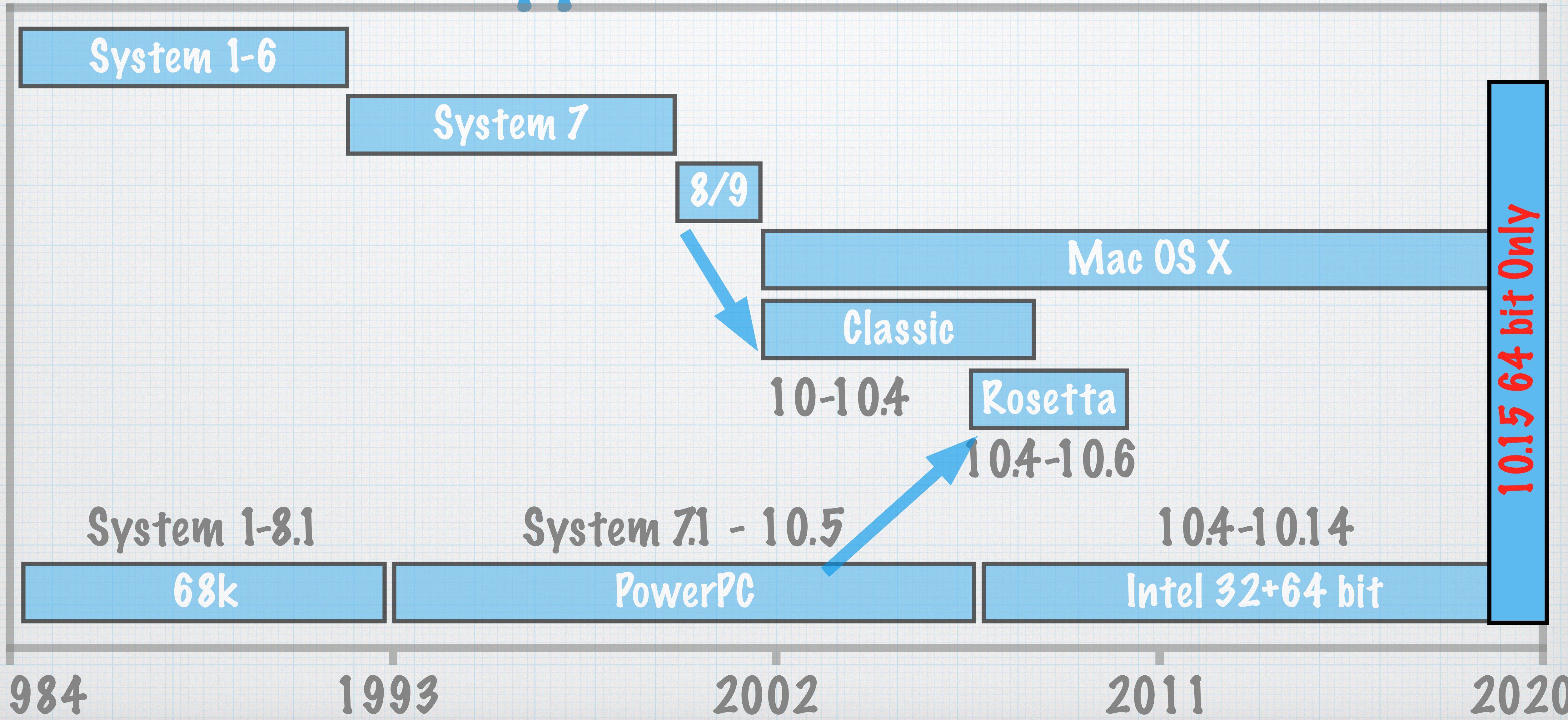


32-bit App-pocalypse

64-bit only from now on...*

*well, there are some ways around it...

Apple Transitions

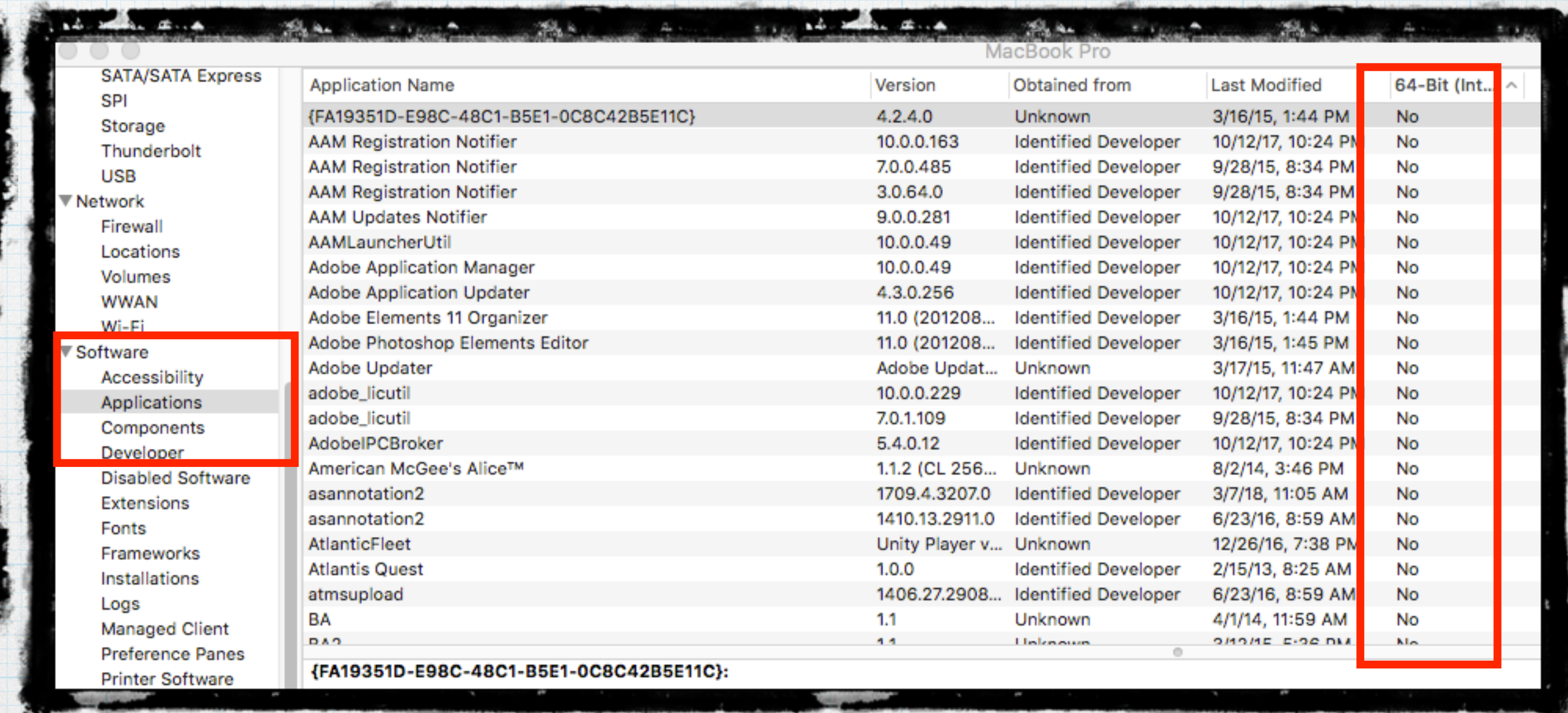
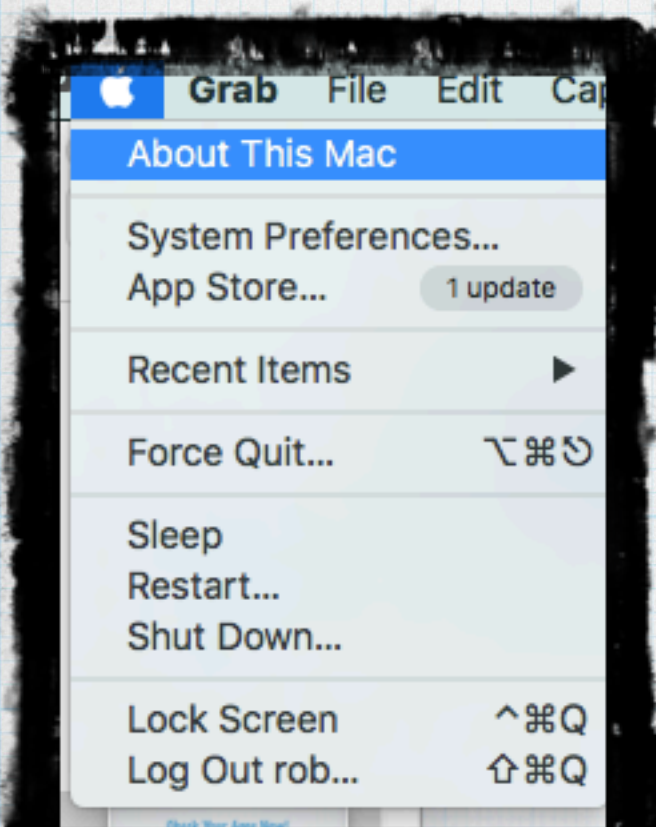


Catalina 10.15 64 bit ONLY

- * 64 bit Intel processors from ~2012-now
- * 64 bit Applications ONLY
- * No way to run 32 bit applications natively

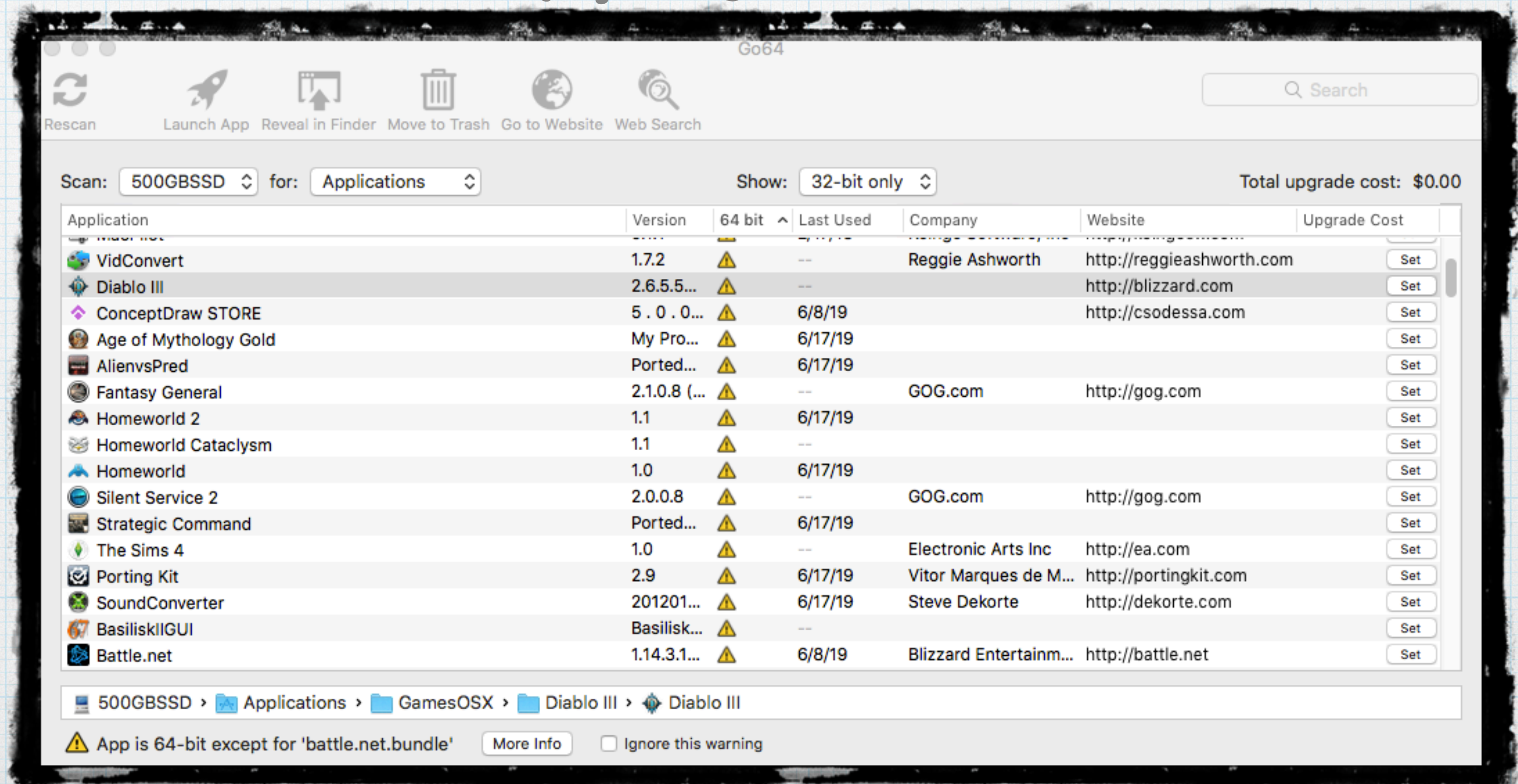
Check Your Apps Now!

* Apple Menu/About This Mac/System Report/Software/Applications



Go 64

- * <http://www.stclairsoft.com/Go64/>
- * Checks Dependencies (secondary program calls)



Starting Steps

- * Check your software
- * Get updates
- * Might Cost Money

Most Likely Not to Make It

- * Old Software with the publisher gone
- * Games - so many used 32 bit Windows "ports" since 2006-2016
- * Specialty Software/High End (Adobe etc. coming later)

New Macs

- * Macs released from late 2019
- * Only support 10.15 Catalina onwards
- * No way to run older Mac OS / 32 bit

Alternative Routes

- * Don't upgrade, Mojave will be supported for 2-3 more years with security updates
- * Keep earlier Mac OS X and Install Catalina on a different drive or partition
 - * You can then choose which to Boot To (System Preference/Start Up Disk or Option Key on Startup)
- * Virtual Machine under Parallels/Fusion/VirtualBox***
 - * *** get more RAM, a bit painful and some limitations - No to most games

Keep Both Systems

- * use Disk Utility to make another disk partition or get an external disk (preferred) - make sure size is bigger than space on your disk
- * for external get USB3.0+, Thunderbolt (1/2/3/USB-C), for really old machines FireWire 800 - rare but still works
- * prefer SSD for speed, but if disk is really full regular spinning disk

Clone Current System

- * Carbon Copy Cloner
- * Clone your current disk to that new partition or disk
- * Install Catalina to one of the "disks"
- * You then have your old system and Catalina
- * Can select which to use in System Preference/Startup Disk or hold down Option on Startup

Make a USB Installer

- * Download Catalina, when it wants to install simply quit
- * Make an installer on USB Key if you want it NOT on the Startup disk
- * <https://macdaddy.io/install-disk-creator/>
- * Start from that USB Key and then install Catalina

Virtual Machine

- * Parallels can make a Virtual Machine from the hidden emergency system
- * Remember you are now running 2 Mac OS X Systems at once - need a moderately fast machine with 8GB RAM
- * Games - oh 3D games are a no go under Mac OS X in Parallel
- * Apple never allowed Mac OS X under Parallels to have graphic chip access, yet Windows does - what!