## CPU System 1.6 Redux Beast Mode

- Von-Neumann architecture, 8-bit data bus, 16-bit address bus
- 64 instructions including conditional branching, subroutines, stack and word operations
- UART interface for terminal display, keyboard input, data I/O & upload via 'cut & paste'
- 32KB RAM, 512KB FLASH with file system (format, load, save, dir, delete commands)
- Expansion port (I/O card, VGA card)
- Maximum clock speed 8.3MHz, processing power 1.0Mips (= 2.3 x Commodore 64)
- 2 data registers A and B
- Simple adder
- 3 flags (negative, carry and zero)
- 24 control signals
- 40 TTL chips (74HCxx logic, 62256 SRAM, 39SF0x0 FLASH)
- Online reference manual
- Games, cross-assembler (Win10 or Python), cycle-exact emulator (Win10)
- Native tool-chain: Operating system, text editor, assembler, Python-like interpreter



