SPACE WARS

Variable Assignment

- Used in key scans. Also shows hit with VF after firing.
- V1 Target-movement flag. Enables target movement while firing
- V2 Used with V1 to display score
- X Coordinate adjuster for phaser sight movement
- V4 Y Coordinate adjuster for phaser sight movement
- V 5 V 6 XY coordinate and loop counts for phasor firing and for ٧7 message displays
- V8
- V9 X Coordinate for target (also for destruct and return-fire)
- Y Coordinate for target (also for destruct and return-fire) VA
- Number of times starship is hit: initially 0; at 4, destroys your starship
- VC
- Number of phasers. O ends game. Initially 1E (30 shots) Number of times the target is hit. 3 is average, 6 is very good, 10 is excellent. Initially is 0.
- VΕ Utility loops, miscellaneous flags, loop counts.
- time value to timer subroutine. VF is also hit indicator VF

Program Structure - All Systems

- 0000-02FF Modified CHIP-8 Two-Page Interpreter with "Messager"
- 0300-0380 Main program; initialization, key presses, scoring
- 038E-03B4 Fire phasers
- 03B6-03D2 Display new target. Entry at 03BC disables phaser sight movement.
- 03D4-03E4 Limit target to screen edges
- 03E6-0416 Target Destruct display
- 0418-0420 Display debris
- Target returns fire. Also decides if starship was 0422-045A hit.
- 045C-0470 Display the score
- 0472-047A Timer. VE passes value.

Other Routines And Data - 3K & 4K Systems

- Message routines 047C-0556
- 0558-0574 Machine language subroutine - starship hit sequence (4K system owners note changes)
- 0576-05C0
- 05C2-05FE Data storage. Patterns for display, etc.
- 0600-06A2 ASCII Coded messages
- 06A4-06FE
- 0700-08FF Character set - modified 128-character set.
- All FF's for 4K system only. Used by MLS starship 0900-0AFF
 - hit sequence
- Top two memory pages for display all systems. OYOO-OXFF