PROGRAM DESCRIPTION

Please refer to the program listing. This description
will follow the listing in the order it was programmed,
not necessarily in the order it performs. It is assumed
that you understand the operation of the assembler, and
the use of the standard call and return technique as
described in the 1802 manual.

Many subroutines of Chip-8 Assembler-3 are general
enough that they could be used without modifying in other
programs. For instance the ASCII-HEX conversions would
be very useful in a number of possible "utility" programs.
For that reason, the more general subroutines are
catalogued on page 2 of the listing under the heading,
SUB ROUTINE DESCRIPTIONS. In the same manner as the
Chip-8 Program Library already discussed, each subroutine
is listed with its input; its output; the registers that
are changed by it; and any other subs it needs in order
to function. (Not all of the subroutines are included
-- only the ones of a general all-purpose nature.) From
here on, all page numbers refer to those of the program
listing.

*   *   *

Page 8 begins with the initialization. R2 is the
stack pointer @ 00FF, R3 becomes the program counter

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