

ENIAC TIMING CHART

121-1-322

OPERATION	TIMING		
	Seconds	Micro-seconds	Addition Times
ADDITION, SUBTRACTION, OR TRANSFER Including transfer from constant transmitter	$\frac{1}{5000}$	200	1
Transfer repeated "n" times in the accumulator (n = 1 to 9)	$\left(\frac{1}{5000}\right) n$	200 n	n
MULTIPLICATION By "n" digit multiplier (n = 2 to 10)	$\left(\frac{1}{1250}\right) + \left(\frac{1}{5000}\right)$	300 + 200 n	4 + n
By ten digit multiplier	$\frac{1}{360}$	2,800	14
DIVISION OR SQUARE ROOTING Average time for nine digit result	$\frac{1}{38}$	26,000	130
Average time for "n" digit result (n = 3, 6, 7, 8, or 9)	$13(n+1)\left(\frac{1}{5000}\right)$	$13(n+1)(200)$	$13(n+1)$
Maximum time for nine digit result	$\frac{1}{23}$	42,000	210
Maximum time for "n" digit result (n = 3, 6, 7, 8, or 9)	$21(n+1)\left(\frac{1}{5000}\right)$	$21(n+1)(200)$	$21(n+1)$
OBTAINING A FUNCTIONAL VALUE ONCE	$\frac{1}{1000}$	1000	5
Repeated " n " times (n = 1 to 9)	$\frac{1}{1250} + \frac{1}{5000} n$	800 + 200 n	4 + n
			1184