

-\$	Understanding how compilers work
-3	more existent code (if we could be constituted to be constituted t
-3	-> more efficient code (if vs switch, for vs while, indexing, pointing)
-3	-> x86-64 & hierarchical noture of the memory system -> buffer - overflow vulnerabilities
-9	
	link-time errors a global variables across differ source files
-9	
	Hardware
	buses
-0	Trunsfer data by fixed sizes (4 or 8 bytes)
-	· [I/o devices] (=> I/o buses
-19	b external connection for our computers.
-	Main Memory
*	" temporary storage device
()	Processor
1	
1	s All)
C	4 AW with word-sized registers
1	
	execution of hello disk Gis main functions
5	(in main function) (in main function)
5	2. memory (instructions) > processor
4	3. Li copy 4 Mello WorldIn" from memory -> registers
	4. registers -> display dence
+	
4	Caches mutter
4	•
4	fills the processor-memory gap & Size: processor \$50 memory (<< disk levels of caches. Speed processor >>> memory >>>>>>> disk
+	4 L1: smaller, fuster, duta more likely to be retrieved / recently used
4	luner
t	Lit Likely data in
t	is (some machines) & Exploit (ocality) larger data in taster time?
+	(LD) by programs more likely to access
	processor -) LI 12,13 -) Memory
	SRAM DRAIM COCAL (CLOSE IN MEMORY STACK) datas.
-	-> local disk -> servers