RETURN FUNCTION

- Syntax:

SRET (POP - EIP)

> let n pops return addrand n add. bytes.

Stack Frame

- AKA activation record

- Calling program pishes args onto

- Called PROC pushes old ebp, then sets ebp=esp, creating a stack frame.

New Addressing Modes

- immediate, Direct, Register all known

-now we use register indirect

Laccess Horough an addr in a reg

- also Indexed addressing: using "distance" In a register.

- or Base-Indexed: Using start address In one register, offset in another and ald to access memory.

Register Indirect Addressing

- [reg] = Contents of memory at address reg

-Basically working with ptrs, as reg = pointer to mem.

- can manipriate as in [reg +12] where the address at reg would be reg + uteral 12

target > MP: first = mp+1 target LMP: last =MP-1

- to access nith element, Add Arrays

(nx Data_size) to the offset of the first element!

-reading OOB results in jibberish

-Indexed Addressing can

using list of DWORD be used:

mor edi, o mov list [edi] , eax // element 0

mor edi, 4 mor list [edi], ear lelement 1!

Sort Types

-Bubble Sort

> O(n2) (inefruent)

-> Compare values 2 by 2 ...

sequential 3

MANY SEARCH

-looking through an alray

to find a value.

-takes arg n/2 tries to find

value in n-long list - effective under 1080=n

Binory SearCh

-requires ARL 13 sorter

- Array (first, last)=range

and target = torget value.

1. range is (first, last). If first > last no matan.

2. calculate Mud point of first, last

3. compare target to my part target = MP; found