

- Jaii) if (x = 0)retim 0;

 if $(y \le n0 < 0)$ retim x;

 if (x = y)retim x < x < x < x < y;

 else x = increment (x);

 riturn x;
- b) 128 MB newry wern addresses on 27 bits lang.
 32-byte block may 5-bit affect.
 - b.a) Assuring question nonny "fully" nesociatie.

 O-hit index in fully associativ.

 22 bits tog, 5 bits offset
 - b.b) Original Mapped: (2 ×10242) ÷ 32 = 65536 sets
 log_2 (65536) = 16
 27-16-15 = 6
 6 bits true, 16 bits index, 15 bits offset
 - b.c) 8 blocky par set: (2×102 42) = (8x32) = 8192 sets

 log, (8192) = 13

 27-13-5=9

 9 bits tog, 13 bits index, 5 bits offset

cont. on Page 4

(aut 26) 32: 10000 5 till long of no couche to affect result. 0 = 0 ... 0 32: \$ 0...100000 8:0...1000 64: 0... 1000000 0: Miss, conclus is empty
32: Miss, index differents to 0 8: Hit, address excluding affect son is 32: Hit, ar address some on 32 (excluding offed)
64: Mies, address different to PU 32 or 8 (excluding offed) 7 hb 3 miss, to requests, Miss Rote: 36 = 60%