8-way Set Associative Cache:

Cache Size = 128 Blocks

Block size = 4 words.

Associativity = 8

No. of Sets = 128 = 16 sets

mey!	Ny2	WY3	way 4	Wy5	wey 6	way.7	wy 8
VIED RE 0 1 1 70 M 2 1 0 11 M 5 1 0 25 M 7 1 3 222 M	1 2 150 M 1 1 88 M	MT D	WTD .	V T D.		W.71 P	M T D

Topvelue Word Akdress Main Memory Block Cechesel 6/16=0 25 25/4=6 6M0D16=6 170/4-42 42/16=2 170 42 MODIG=10 222 222/4=55 55 MODIG= 7 55/16= 3 103/4=25 25 MODIG= 9 25/16= 1 103 15716=0 60/4 = 15 60 15MODI6=15 26/16=1 106 106/4=26 26MODIG= 1:0 63 15/16= 0 63/4=15 151MODIG= 15 28/16=1 28MOD16=12 113 113/4=28 25/16=1 2-57MODIG= 9 101/4=25 101 30/16=1 123 123/4=30 30MOD16=14 37/16=2 37MODG= 5 150 150/4=37 2MODIG= 2 2/16= 0 14/16=0 14 MODIG= 14 70/4=17 17MODIG= 17/16=1 88 88/4=22 22MODIG= 6 22/16=1 90 90/4=22 22MaD16= 6 22/16=1 43 43/4=16 10 M9D16= 10 10/16=0

Total number of words in a Block = 4 words.

miss penalty = 15 ons x 1 + 1 ons x 3 = 18 ons

hily ate = 80%, miss rate = 100-80=20%.

hit rate = 50s

AMAT = ht + myxmp = 50s+0.20x18ons=5+36=410s