

CSE140 - HW 5

3- d) 1. What placement policy did you set to find the cache size in step b?

- The one used was Fully Associative placement policy in order to find the cache size

2- What is the cache size that has compulsory misses only.

- The cache size that only has compulsory misses is 1024 bytes

2- How many compulsory misses do you have?

- I have 65 compulsory misses

3- Put a table or a graph that shows "cache miss count" and "cache hit rate" when you decrease cache size from 50% to 25%.

Cache Size	Cache miss out	Cache hit rate
256	302	92%
512	107	97%
1024	65	98%

4- You may find that the cache miss rate increases as cache size decreases. What types of cache misses are these?

- I feel that the type of misses are capacity misses. When changing from 50% to 25%, there's an obvious gap between the percentages. Hence, there are unaddressed variables for that gap. This capacity miss happens when the amount of data referenced by a program exceeds the capacity of the cache.