CA, 2017 FALL TERMPROJECT REPORT 1#

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**1. Cache 헤더 파일 분석**

Cache.h는 Cache.c의 헤더 파일로써, cache structure를 구현하는 헤더 파일 입니다. 이 헤더 파일에서 사용자는 Cache의 구조와 크기, 연상 기억장치의 N-way에서 N의 값 수정 등 다양한 선언을 할 수 있는 헤더 파일입니다. 특이한 점은 N-way association의 N이 4보다 클 경우, Hash table을 이용한 기능을 사용하고 있다는 점 입니다.

Cache replacement policy는 **Cache\_policy**를 보면 알 수 있듯이, LRU, Random, FIFO의 총 3가지로 나열되어 있으며, 각각의 Replacement policy는 Cache.c에 구현되어 있습니다. Config폴더 내의 문서에 통해 l, f, r를 입력하면 각각 다른 policy를 사용할 수 있습니다. 기본적인 셋팅은 l로 되어있어 replacement policy는 LRU임을 알 수 있습니다.

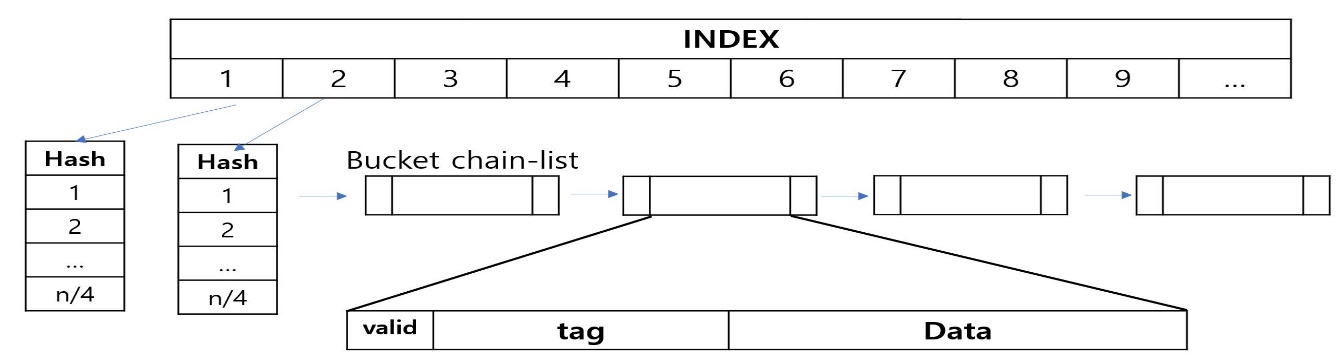
**cache\_blk\_t**는 Cache내의 블록의 구조에 관한 정의 입니다. Cache내의 한 Set에서 각각의 블록들은 linked-list로 구현되어 있으며, **way\_next**는 linked list의 다음 블록을 지정하며 **way\_prev**는 이전 블록을 지정하게 구현되었습니다. **highly\_associative**의 경우에는 hash table을 사용하며 **hash\_next**는 hash table에서 오는 다음 블록을 확인하고 지정하는 역할을 합니다. Block의 valid값은 0x00000001으로 쓰레기 값이 들어가 있는 valid 값은 0x00000002으로 설정 되어 있습니다.

**cache\_set\_t**는 Cache 내의 Set의 구조에 관한 정의입니다. Highly associative인 경우, hash table을 사용하고, 그렇지 않은 경우 way-list 구조를 사용합니다. way\_head는 linked\_list 구조의 맨 첫 번째 블록을 의미하며, way\_tail은 linked\_list의 마지막 블록을 의미합니다.

**cache\_t**는 전반적인 Cache의 구조를 선언하는 구조체로 이름, set 개수, Block size, N 등의 값을 가지고 있습니다.

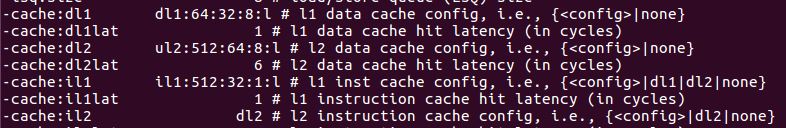
**2. Cache 소스 파일 분석**

**cache.c**는 초기에 설정된 값들과 replacement policy를 통하여 cache miss, hit rate, latency등을 simulate하고 결과값을 출력하는 c 파일입니다. 전체적인 Cache 구조는 아래 그림과 같습니다.

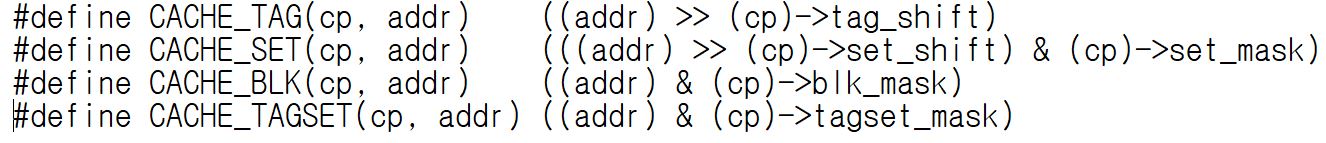


찾고자 하는 address가 주어졌을 때, 우선적으로 block offset과 tag를 제외한 index부분으로 set을 정합니다. 그 후 address의 tag값을 hash function에 넣어 얻은 hindex 값을 통해 hash table의 index값을 찾고, 마지막으로 bucket-chain에서 tag값을 비교하며 원하는 값의 유무를 파악합니다. high associative가 아닌 경우는 중간에 hash function을 사용하지 않고 바로 way-list의 탐색을 수행합니다.

이 때 bucket-chain에서 miss가 발생할 경우, replacement policy인 LRU방식으로 교체될 block을 선택하는데, 이는 매번 block이 참조될 때 마다 해당 block을 맨 앞으로 보냄으로써 linked-list의 tail에 해당하는 block을 least recently used block으로 판단하고 replace 하는 방식입니다.

아래 사진은 apsi benchmark실행 결과로 Dl1 Cache와 l2 Cache의 초기 설정 값을 확인 할 수 있습니다. dl1는 64, ul2는 512 index를 가지고 있고 block크기는 각각 32, 그리고 8의 associativity를 가지고 있습니다. 

다음은 cache.c 파일 내에 선언된 함수들에 대한 개략적인 설명입니다.



위 내용은 address를 입력 받아 **tag, set(index), block offset, tag+set** 을 bit연산을 통해 분리하여 주는 선언입니다.

![텍스트, 영수증이(가) 표시된 사진

매우 높은 신뢰도로 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEA8ADwAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAIAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOydtOuPmeyasQAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADOTYAAJKSAAIAAAADOTYAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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위 내용은 참조하려는 데이터의 크기에 따라 다른 입력값으로 cache access를 호출할 수 있게설정하는 것으로, Byte, Half-word, full-word, double-word 크기의 데이터를 호출할 수 있습니다.

**#define CACHE\_BCOPY(cmd, blk, bofs, p, nbytes)**는 코드가 특정 명령(cmd)를 받을 경우 case에 따라 Cache에서 byte, half-word, 혹은 word크기(nbytes)의 데이터를 불러오고 수정하는 선언입니다. 입력 받은 cmd값이 **Read**인 경우, byte offset과 data배열을 받아 필요한 사이즈만큼을 불러오며, 입력 받은 cmd값이 **Write**인 경우, 데이터를 data배열에 입력하게 구현되어 있습니다. cache hit, 혹은 replacement가 끝난 경우 **cache\_bcopy**를 호출하여 entry 값을 버퍼로 가져오며 가장 마지막에 호출한 **fast\_hit** Cache 블록의 **last\_tagset**과 **last\_blk**을 갱신합니다.

Hash table은 위에서 설명했듯 highly-associative일 경우만 사용되기 때문에 8-way associative의 경우는 hash를 이용하여 index에서 hash table로 연결합니다. 각 hash table에 있는 데이터는 bucket-chain으로 연결되어 있어 각 같은 인덱스를 가지고 있으며, tag비교를 통해 필요한 데이터를 찾아 낼 수 있게 구현되어 있습니다.

hash function은 주어진 address의 tag값을 입력값으로 합니다. tag를 8비트씩 끊어 XOR연산을 진행한 후 hash table size와 AND연산을 진행합니다. Low-associativity의 경우 Hash를 사용하지 않고 set에 직접 연결된 way-list의 head부터 탐색을 진행합니다.

지정된 데이터를 불러 오는데 있어 데이터의 위치가 중요한데 LRU의 경우 가장 나중에 쓰인 entry는 **way\_list**의 가장 끝인 **way\_tail**에 위치해 있습니다. 반대로 가장 최근에 호출된 entry는 way\_list의 가장 처음인 **way\_head**에 위치해 있습니다. 이 구조를 활용하여 **update\_way\_list**라는 함수를 호출하고 이 함수는 지정된 order way chain의 블록들을 탐색하고 그 블록을 linked-list에서 **way\_tail**을 빼내고 replacement를 삽입하는 함수로 사용됩니다.

**unlink htab ent / link htab ent** 함수는 **update\_way\_list**와 동일하게 high associativity의 경우 사용하는 hash table 내에서의 bucket chains에서 지정된 block을 찾아 제거 또는 생성(연결)하는 함수입니다.

Cache를 생성하는 구조에 있어 기본적으로 들어가는 parameter는 **name, nsets, bsize, balloc, usize, assoc, cache replacement policy**으로 Cache의 이름, Cache크기, Cache블록 할당 함수, 그리고 연상 Cache의 크기, 그리고 replacement policy를 받는 구조로 되어있습니다.

**cache\_probe**는 Cache 내부에 원하는 데이터가 존재하는지 확인하는 함수로 존재하면(hit) **TRUE**를,없는 경우(miss) **FALSE**를 반환합니다.

**cache\_access**는 probe를 하는 과정에서 miss가 반환될 경우 지정된 cache replacement policy에 따라 원하는 데이터를 블록으로 불러오는 함수입니다.

**cache flush addr** 함수는 지정된 주소의 block을 찾아 flush하는 함수이며, **cache flush** 함수는 전체의 함수를 flush하는 함수입니다.

**cache stats / cache config / cache reg stats** 함수는 각각 해당 내용을 출력해주는 함수입니다.