ECE-585 – Microprocessor System Design Test Plan – Group 12 Data structure of the Last Level Cache (LLC)

Team Members:

Sanjeev Krishnan Kamalamurugan Balaji Ginkal Harisha Mohith Kumar Bennahatti Chikkegowda Akshaya Kudumalakunte Ravi Kumar

Cache Parameters:

Cache Size: 16 MB
 Line Size: 64 bytes
 Associativity: 16

4) Number of sets: (Cache size * 1024 * 1024) / (Line size * Associativity)

Address bits split up: (32 bits)

Offset: 5 - 0
 Index: 19 - 6
 Tag: 31 - 20

Data Structure:

Valid	Dirty	Mesi	Tag	Index	Offset
1 bit	1 bit	2 bits	12 bits	14 bits	6 bits