

L2.22

October 1, 2018

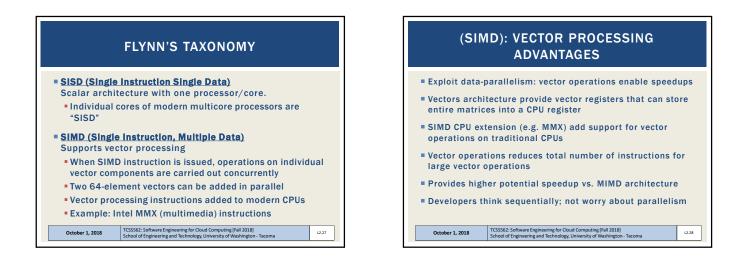


TCSS562: Software Engineering for Cloud Computing [Fall 2018] School of Engineering and Technology, University of Washington - Tacoma

MICHAEL FLYNN'S COMPUTER ARCHITECTURE TAXONOMY Michael Flynn's proposed taxonomy of computer architectures based on concurrent instructions and number of data streams (1966) SISD (Single Instruction Single Data) SIMD (Single Instruction, Multiple Data) LESS COMMON: MISD (Multiple Instructions, Single Data) LESS COMMON: MISD (Multiple Instructions, Single Data)

- Pipeline architectures: functional units perform different
 operations on the same data
- For fault tolerance, may want to execute same instructions redundantly to detect and mask errors - for task replication

 October 1, 2018
 TCSSS62: offware Engineering for Cloud Computing [Fail 2018] and Technology. University of Washington - Tacoma
 12.26



L2.25

