**FIRST ASSIGMENT**

ORGANIZATION AND ARCHITECTURE COMPUTER



Disusun oleh:

|  |  |  |
| --- | --- | --- |
| Nama | : | Assyati Amadjida T.M. |
| NIM | : | L200164006 |
| Kelas | : | X |

**FAKULTAS KOMUNIKASI DAN INFORMATIKA**

**UNIVERSITAS MUHAMMADIYAH SURAKARTA**

**2018**

**Brief Computer Specification**

Computer Name : ASSYATI

Computer Type : ASUS X456UQ

Computer OS : Microsoft Windows 10 Enterprise (x64) Build 17134.407 (1803/RS4)

CPU Brand Name : Intel(R) Core(TM) i7-6500U CPU @ 2.50GHz

CPU Technology : 14 nm

Number of CPU Cores : 2

Number of Logical CPUs : 4

Computer RAM : 8 GBytes

**Computer Cache Analysis**

|  |  |  |
| --- | --- | --- |
| No | Parameter | Analysis |
| 1 | **Cache Size**   * L1-Cache * L2-Cache * L3-Cache | 64 Kbytes  512 Kbytes  4096 KBytes |
| 2 | **Cache Location**   * L1-Cache * L2-Cache * L3-Cache | Internal  Internal  Internal |
| 3 | **Cache Speed**   * L1-Cache * L2-Cache * L3-Cache   **Main Memory (ns) (MAX)**   * Cycle Time (ns)(MAX) * Latency Time (ns)(MAX) * Main Memory Speed | unknown  unknown  unknown  1,6 ns  13,5 ns  21,6 ns |
| 4 | **Processor Type**   * Processor Name * Original Processor Frequency * CPU Technology | Intel Core i7-6500U  2600.0 MHz  14 nm |
| 5 | **Main Memory**   * Type * Size * Manufacture | DDR4 SDRAM  8 Gbytes  SK Hynix |