Introduction - Laboratory work

Financed from the financial support ELTE won from the Higher Education Restructuring Fund of the Hungarian Government

Contact

Heizlerné Bakonyi, Victoria

Phone: /8565

Room: South Building 2.403

Mail: hbv@inf.elte.hu

Homepage of the subject: http://fundofcomp.inf.elte.hu

Course page: http://canvas.elte.hu

Information

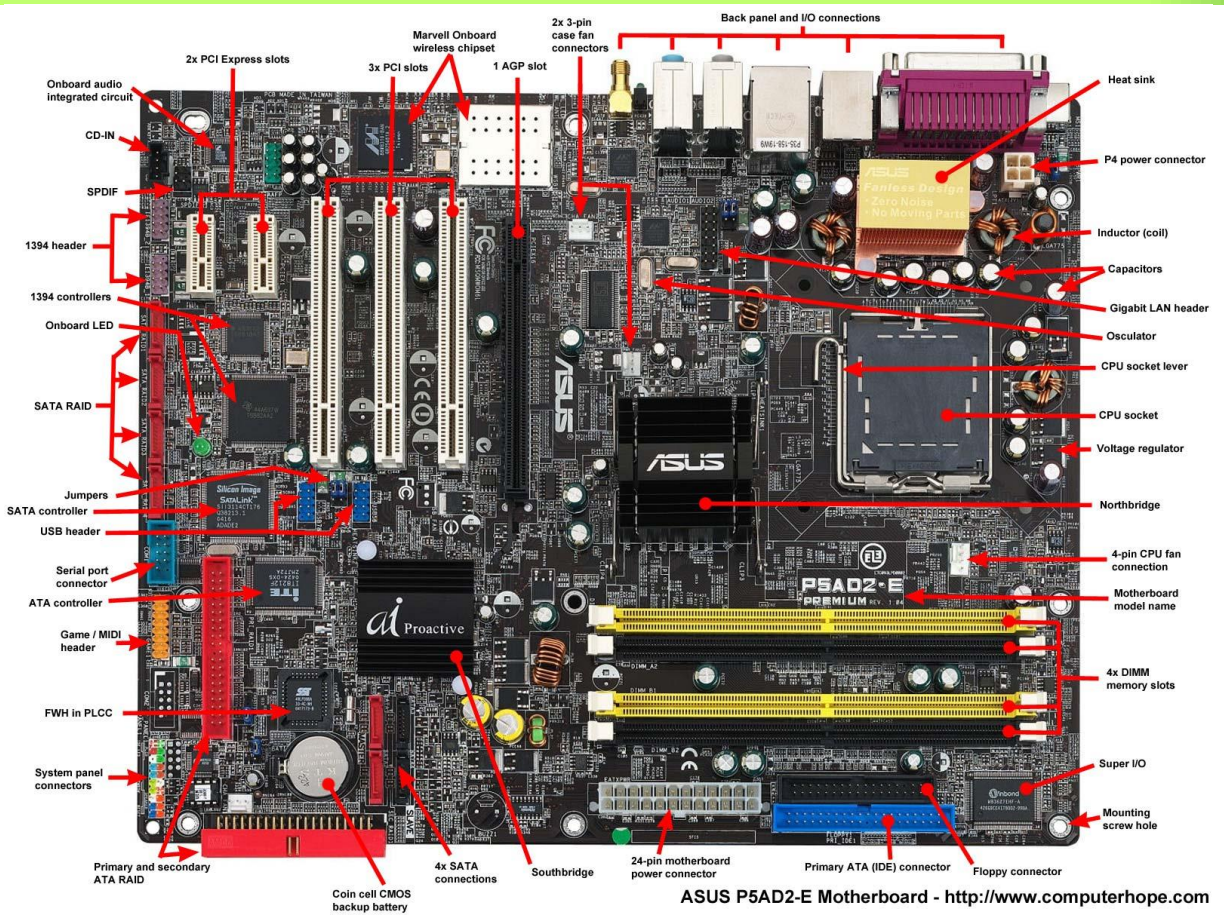
- weekly schedule 2+2+1 (2 lecture, 2 laboratory, 1 consultation)
- You'll get a complex mark from theory and practice together
  No re-examination!
- To get a final mark:
  - 4 part-examination (each of them must be >= 2)
  - 2 homeworks (within the deadlines)
  - You may re-writing each of the written part-examinations!

Main parts

- Monitor
- Keyboard
- Mouse
- Other input/output devices
- Computer

Motherboard

- Processor, slot, socket
- Chipset (north, southbridge)
- Memory slots (DIMM)
- Non-volatile memory chips Flash ROM
- Clock generator
- Expansion cards
- etc



wikipedia

Team work

- Take the computers into pieces!
- Please, take out the processor (under the heatsink)
- Please, take out the memory! Find the place of Flash memory!
- Find the place of south and north bridge!
- Find the serial ports and name them!
- Take photos about everything!
- Homework create a ppt about your work and send an e-mail!

Collect as many data as you can …

- Processors (producer, types, etc.)
- Part of Processors
  - ***A**rithmetic and **L**ogical **U**nit*
  - ***A**ddress **G**eneration **U**nit*
  - ***C**ontrol **U**nit*
  - Register
  - Bus-controller
  - Cache

Working steps of a processor

1. **Memory → processor**
2. **Instruction decoding**
3. **Execution**
4. **Storage of the result**
5. **Next instruction**

If you have any questions…