Chapter 1.

Introduction







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|---|---|---|---|
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| 명령어안내 (c) 도움 선택 > | 말(H) 초기화면(T) 0 | 동(GO,P,A,N,B) 종료 | (X) |

Computer: present





Computer: future?

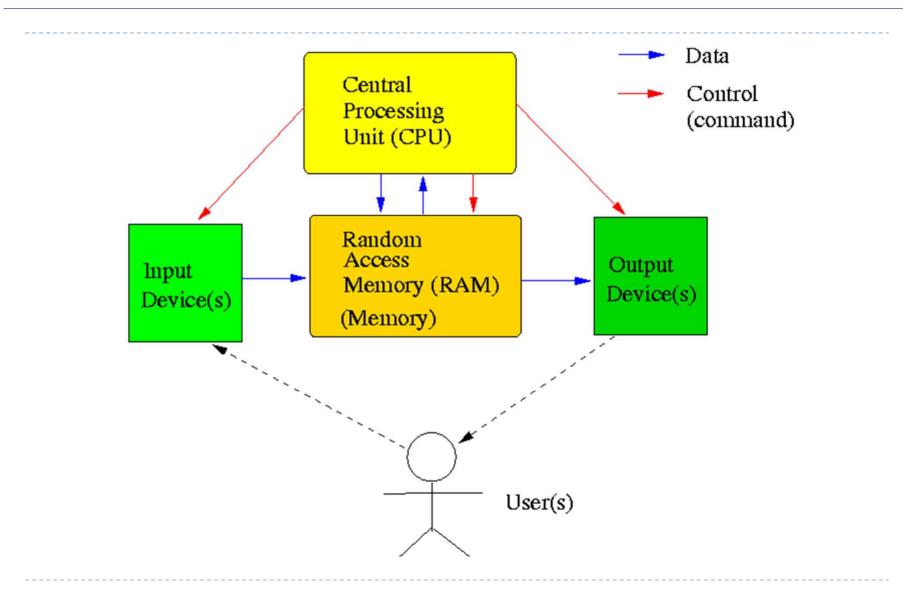


Wearable?

Cloud?



Structure of Computer (Hardware)

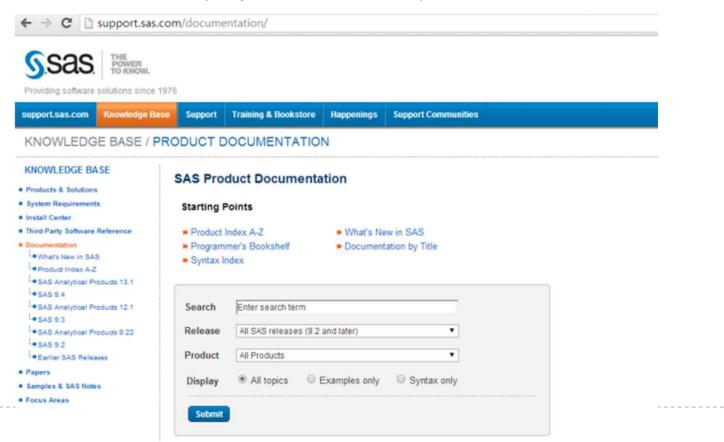


Software



SAS (Statistical Analysis System)

- > SAS is a software system that enables you to perform statistical analysis
- One of the most widely used statistical software
- □ Latest version : SAS 9.4 (http://www.sas.com)



SAS products

> SAS/STAT Statistical Analysis

> SAS/GRAPH Tool for getting enhanced graphs

> SAS/OR Operations Research

> SAS MACRO Tool for reducing the amount of text for common tasks

> SAS/IML Interactive Matrix Language

We will mainly deal with procedures including in Base SAS and SAS/STAT.

SAS components

SAS consists of two main components.

DATA step is used to deal with data sets.

- > Creating data sets

PROC (procedure) step is used to process the data sets produced in DATA step.

- Raw data
- SAS data set

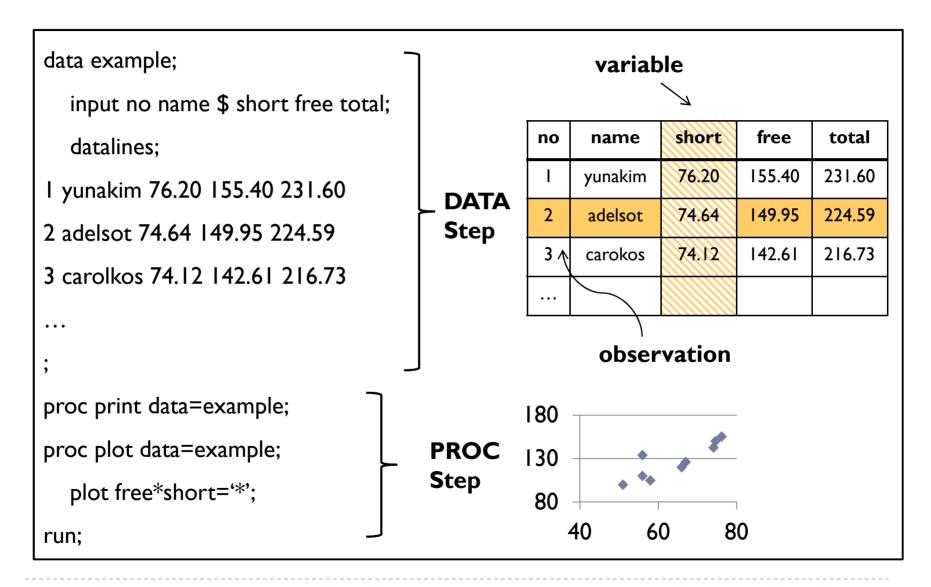
DATA step

SAS data set

PROC step

Result

Example



SAS windows

SAS windows consists of several parts.

Program Editor

Output

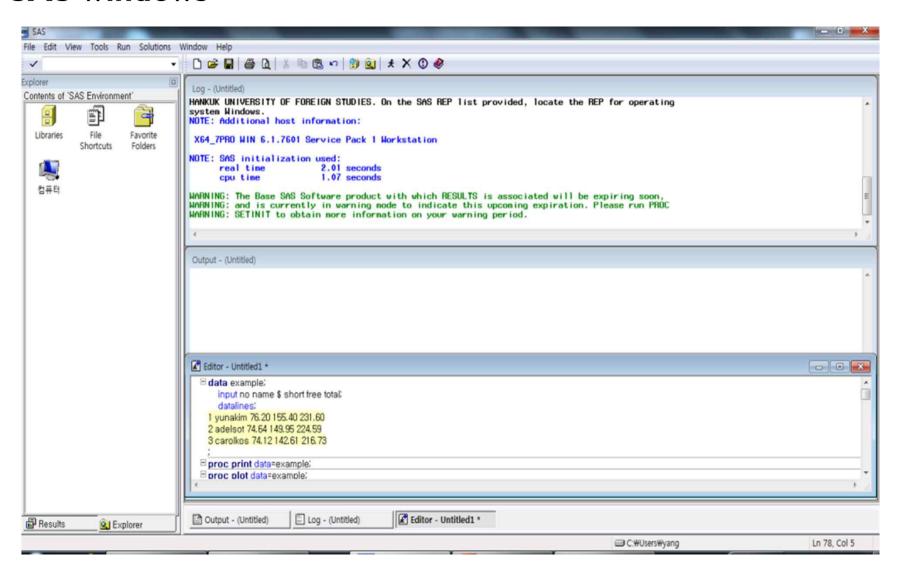
- Displaying output obtained from execution of SAS program
- ▶ Plots, data summarizing, advanced analysis....

Log

Etc.

- > Explorer (Libraries)

SAS windows



Basic rules for SAS statements

- Each SAS statement must end with a semicolon ';'.
- \triangleright No difference between capital and small letters. (A = a)
- > You can begin a SAS statement at any column of a line and also can continue it on another line.
- > You can write several statements in one line if they are separated by semicolons.
- > You can omit **run**; between procedures. But, It must appear at the end of procedure statements.
- No blank is allowed for SAS names.
- > The maximum length of SAS names is 32.
- > You should start with a letter or '_' for SAS names.
- \triangleright Comment: Statements inside '/* */' or starting from '*' are not executed.

SAS libraries

WORK

- > Reset whenever SAS restarts.

User defined libraries

- > You can create your own libraries.
- > Stored permanently unless you delete it.