SAS overview:

• Base SAS - data management and basic procedures

• SAS/STAT - statistical analysis

• SAS/GRAPH - presentation quality graphics

• SAS/OR - Operations research

• SAS/ETS - Econometrics and Time Series Analysis

• SAS/IML - interactive matrix language

• SAS/AF - applications facility (menus and interfaces)

• SAS/QC - quality control

* other specialized products for spreadsheets, access to databases. sharing etc.

SAS structure commands:

* data step
* procedure step.

Accessing SAS on UNIX :

* sas: SAS display manager
* sas -nodms | prompt per statement
* sas -stdio |standard UNIX program
* sas filename.sas: batch mode|

Preliminary Concepts and Rules :

* alias\_length :32
* Not case-sensitive
* NULL|Missing values: period(.)
* Statement end: (;)
* Comments: single line (\*)| enclosed (/\* \*/)
* SAS log: informative message on execution of commands.
* Block execution statement: run;
* Termination statement: endsas;

*The Data Step*

* Utility: Data import|reshape|manipulate|transform|report|print.
* Structure:

proc data ds1 [ds2] [ds3...] [option1] [option2...];