Statistics LET Subcommands EXPECTED LOSS

EXPECTED LOSS

PURPOSE

Compute the expected loss for a variable.

DESCRIPTION

The expected loss computes the number of defectives for a variable (i.e., the number of values that fall outside of some user specified tolerance limits) and multiplies that by a user specified cost.

SYNTAX

EXAMPLES

```
LET A = EXPECTED LOSS Y1
LET A = EXPECTED LOSS Y1 SUBSET TAG > 2
```

NOTE

The upper and lower specification limits must be specified by the user as follows:

```
LET LSL = <value>
LET USL = < value>
```

The cost value must be specified as follows:

LET USLCOST = <value>

DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

EXPECTED LOSS PLOT = Generate an expected loss versus subset plot.

CONTROL CHART = Generate a control chart.

CP = Compute the CP index.
CPK = Compute the CPK index.

PERCENT DEFECTIVE = Compute the percentage of defectives for a sample.

REFERENCE

"Guide to Quality Control," Kaoru Ishikawa, Asian Productivity Organization, 1982 (chapter 13).

APPLICATIONS

Quality Control

IMPLEMENTATION DATE

90/12

PROGRAM

SKIP 25

READ GEAR.DAT DIAMTER

LET USL = 1.01LET LSL = .99

LET USLCOST = 10

LET A = EXPECTED LOSS DIAMETER