SUMMARY

PURPOSE

Carries out a summary analysis.

DESCRIPTION

A summary analysis is a data analysis technique for computing and tabulating a variety of summary statistics for a data set. This includes measures of location (e.g., the mean), of dispersion (e.g., the standard deviation), of randomness (the autocorrelation), and of the distribution (e.g., the skewness).

SYNTAX

SUMMARY <y1> <SUBSET/EXCEPT/FOR qualification> where <y1> is a response variable; and where the <SUBSET/EXCEPT/FOR qualification> is optional.

EXAMPLES

SUMMARY Y SUMMARY Y2

NOTE

Most of the statistics computed by SUMMARY can also be computed individually as LET subcommands.

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DEFAULT

None

SYNONYMS

None

RELATED COMMANDS

LET 4-PLOT

- Compute various statistics and transformations.
- Generate a sequence plot, a lag plot, a histogram and a normal probability plot on the same page.

APPLICATIONS

Data analysis

IMPLEMENTATION DATE

Pre-1987

PROGRAM

SKIP 25 READ MARSHAK.DAT Y

SUMMARY Y

The following output is generated.

SUMMARY

NUMBER OF OBSERVATIONS = 211

*	LOCATI	ON M	EASURES	*	DISPERSI	ION	MEASURES	*

*	MIDRANGE	=	0.2236850E+05	*	RANGE	=	0.8390000E+03	*
*	MEAN	=	0.2238015E+05	*	STAND. DEV.	=	0.1543979E+03	*
*	MIDMEAN	=	0.2238110E+05	*	AV. AB. DEV.	=	0.1221611E+03	*
*	MEDIAN	=	0.2238000E+05	*	MINIMUM	=	0.2194900E+05	*
*		=		*	LOWER QUART.	=	0.2229200E+05	*
*		=		*	LOWER HINGE	=	0.2229200E+05	*
*		=		*	UPPER HINGE	=	0.2248700E+05	*
*		=		*	UPPER QUART.	=	0.2248800E+05	*
*		=		*	MAXIMUM	=	0.2278800E+05	*

*	RANDOMN	ESS	MEASURES	*	DISTRIBUTI	ON	AL MEASURES	*

*	AUTOCO COEF	=	-0.5054735E-01	*	ST. 3RD MOM.	=	-0.1358314E+00	*
*		=	0.000000E+00	*	ST. 4TH MOM.	=	0.3023729E+01	*
*		=	0.000000E+00	*	ST. WILK-SHA	=	0.8213547E+01	*
*		=		*	UNIFORM PPCC	=	0.9741324E+00	*
*		=		*	NORMAL PPCC	=	0.9980268E+00	*
*		=		*	TUK5 PPCC	=	0.8833071E+00	*
*		=		*	CAUCHY PPCC	=	0.6132092E+00	*
* * * * * * * * * * * * * * * * * * * *								