

What's a TINY TROLL doing inside an Apple?



Introducing... TINY TROLL for the Apple II* Personal Computer

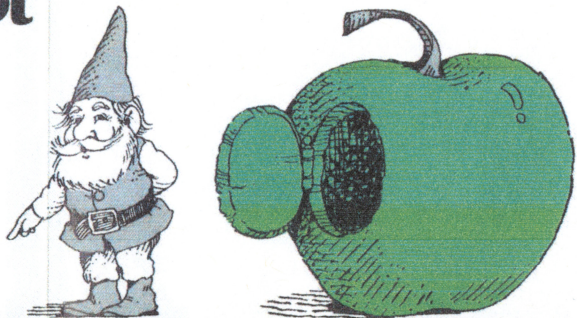
TINY TROLL is a new interactive data analysis system specially designed for use in business, finance, and investment applications. With a single, simple command TINY TROLL can:

- display high resolution graphs and charts
- analyze and forecast data series
- print out tabular reports
- calculate descriptive statistics
- manipulate and transform entire sets of data at once

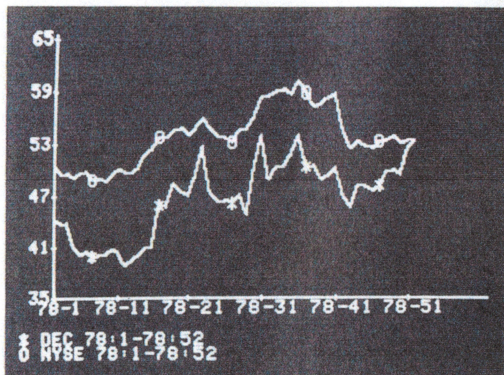
TINY TROLL is an offspring of TROLL (which stands for Time-shared Reactive On-Line Laboratory), developed at MIT as the world's most advanced computer system for research in economics and social science. Now, for the first time, the power of TROLL is available with the convenience of the Apple II personal computer. TINY TROLL's English commands and self-prompting features mean you don't have to be a programmer to use it. Self-teaching computer tutorials and a professional 100 page learning guide will get you started right away.

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TINY TROLL is a trademark of Micro Finance Systems, Inc.

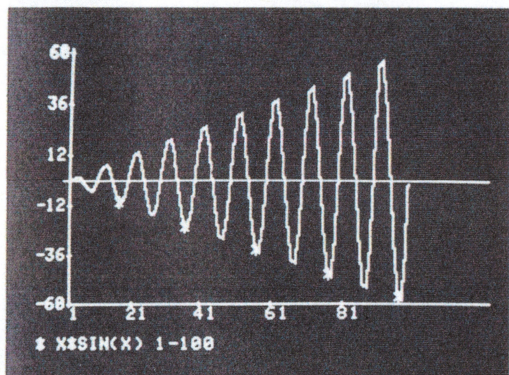
Stock charting, investment analysis, business forecasting and a whole lot more.



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Stock Price Chart



Mathematical Function Plotting

```
COMMAND> STATISTICS DEC :
DEC
PERIOD 52 START DATE 78:1 CASES = 52
RANGE 78:1 TO 78:52 WITH 52 CASES
MAX = 54.125 MIN = 38.75
MEAN = 46.553
VARIANCE = 19.871
STD DEV = 4.367
COMMAND> STATISTICS NYSE :
NYSE
PERIOD 52 START DATE 78:1 CASES = 52
RANGE 78:1 TO 78:52 WITH 52 CASES
MAX = 60.24 MIN = 48.67
MEAN = 53.8
VARIANCE = 18.329
STD DEV = 3.214
COMMAND>
```

Descriptive Statistics

```
*** TINY TROLL V1.0 ***
(C) 1979 MICRO FINANCE SYSTEMS

CA - DISK CATALOG
DE - DATA EDIT
DO - DO DATA TRANSFORM
HE - HELP
LI - LIST
LO - LOAD
NA - SET FILE NAMES
PE - PLOT
PR - SET PRINTER
RA - SET ACTIVE RANGE
REG - REGRESSION
SA - SAVE FILE
SP - SET FILE SPECIFICATIONS
ST - STATISTICS

COMMAND> PLOT DEC NYSE :■
```

Table of Commands

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Applications

TINY TROLL was designed to help the problem-solving professional analyze any sort of time-series or other data by exploring relationships, asking "what-if" questions, and testing theories in a very flexible way which is not limited to any set of pre-programmed applications.

■ **Investors** – chart and evaluate stocks and commodities

■ **Managers** – do planning, budgeting, and performance analysis

■ **Educators** – use as a tool for classroom presentations in mathematics, business administration, or social science

Features

■ High resolution plotting of multiple data series, with automatic scaling and complete labeling

■ Multiple regression with as many as 8 independent variables, complete statistics, ability to save and analyze residuals

■ Data transformation using all standard mathematical functions to operate on one or more sets of data simultaneously

■ Tabular report generation and printout

■ Mathematical function plotting

■ Simplified data entry and editing

■ Disk storage and retrieval of data

■ Built-in error handling and recovery

System Requirements

Apple II or Apple II+ computer, 48K RAM, disk drive. Second disk and printer optional. (Apple II must have Applesoft Basic in ROM.)

Introductory Price \$100

Ask for a demonstration of TINY TROLL at your local Apple dealer, or contact:



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