

JForth Professional

for the Amiga

User Manual and Reference Guide

Version 3.0

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<http://www.softsynth.com/jforth>

Technical Support is not Available

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How to Use This Manual

This Manual is organized into four main sections. The first is a tutorial for people who are just learning Forth. If you already know Forth, you may want to just skim the main tutorial until you get to the parts that are unique to JForth. The second section describes the features of JForth as a general purpose programming language. The third section describes the parts of JForth that are specific to the Commodore Amiga. The fourth is an extensive glossary of the words defined in JForth and is intended as a reference.

I strongly recommend at least skimming the whole manual. There are a lot of features of JForth that are easy to miss. There is no point in recreating tools that already exist. I also recommend reading the Table of Contents carefully. I recommend also looking at the description of what files are on the disk to make sure you have not missed anything.

If you are the type of person who learns best by example, you may want to skip to the description of the demos in Chapter 3. You can print the source code for the demos which you will find in the JD: directory on the JTools disk.

Besides this manual, you will also need a good Amiga internals manual to make use of the Amiga libraries. The Intuition manual and the ROM Kernal manuals are particularly important. These are available from Commodore, and most computer book stores.

Be sure to also look at the README files on the disk, and look in the JDOC: directory for any late breaking news. Check out the Bibliography too for good Forth text books.

Instant Gratification

We recommend that you read Chapter 1 first, then do the tutorials. If you simply cannot wait then try the following steps. If you are confused by anything, slow down and go back to the tutorial.

Step 1: Make backups of all disks.

Step 2: From the WorkBench, open the "Extras" disk then open the "Com" drawer.

Step 3: Double Click on the JForth Icon.

Step 4: Wait for JForth to load then, in JForth, enter the following paying close attention to spaces. (Note: The word "." has no spaces between the dot and the quote.)

```
:   HI   ."   Hello World!"   ;  
HI
```

Congratulations. You have just written, compiled, linked and tested your first JForth program. JForth routines start with a colon and end with a semicolon.

Step 5: Insert the "JForth" disk and enter in JForth:

```
DOS EXECUTE JFORTH:ASSIGNS
```

Step 6: Now load the Graphics system by entering:

```
INCLUDE  JU:AMIGA_GRAPH
```

Step 7: Now open a test window and draw a line:

```
GR.OPENTEST  
20 10 GR.MOVE  
123 45 GR.DRAW
```

Step 8: Now close the window and get to work on the tutorials. Enter:

GR.CLOSECURW
BYE

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[Also thanks to Martin Randall for helping us with the release of JForth as Freeware.]

We would also like to thank the neglected friends of us Delta Researchers for being so patient while we buried ourselves in the machine! Sorry if we've left anybody out...it's *not* from lack of appreciation!