

# IPS Forth: The Language for Space

IPS Forth is a powerful and versatile programming language that has been used to develop a wide range of applications, including operating systems, spacecraft guidance systems, and medical devices. It is a stack-based language, which means that it uses a stack to store data and perform operations. This makes it very efficient and easy to use, especially for complex tasks.

IPS Forth was originally developed in the 1970s by Chuck Moore. It was designed to be a simple and efficient language that could be used to develop real-time applications. IPS Forth has since been ported to many different platforms, including Windows, Linux, and macOS.

IPS Forth has a number of features that make it an ideal language for developing space applications. These features include:



## IPS - a Forth-like Language for Space: HIGH LEVEL PROGRAMMING OF SMALL SYSTEMS IN SPACE

by Juergen Pintaske

★★★★☆ 4.8 out of 5

Language : English  
File size : 2621 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 514 pages  
Lending : Enabled



- **Efficiency:** IPS Forth is a very efficient language. It uses a stack-based architecture, which means that it does not need to allocate memory for variables. This makes it very fast and efficient, even on small computers.
- **Portability:** IPS Forth is a portable language. It has been ported to many different platforms, including Windows, Linux, and macOS. This makes it easy to develop applications that can be used on a variety of different computers.
- **Reliability:** IPS Forth is a very reliable language. It has been used to develop a wide range of critical applications, including spacecraft guidance systems and medical devices. This is due to its simple and efficient design, which makes it less likely to contain errors.

IPS Forth has been used to develop a wide range of applications, including:

- **Operating systems:** IPS Forth has been used to develop a number of operating systems, including the Forth operating system and the Open Firmware system. These operating systems are used in a variety of devices, including spacecraft, medical devices, and industrial equipment.
- **Spacecraft guidance systems:** IPS Forth has been used to develop a number of spacecraft guidance systems. These systems are used to control the attitude and trajectory of spacecraft. IPS Forth is well-suited for this application because it is very efficient and reliable.
- **Medical devices:** IPS Forth has been used to develop a number of medical devices. These devices include pacemakers, defibrillators,

and insulin pumps. IPS Forth is well-suited for this application because it is very reliable and can be used to implement complex algorithms.

IPS Forth is a powerful and versatile programming language that is well-suited for developing space applications. It is efficient, portable, and reliable. It has been used to develop a wide range of applications, including operating systems, spacecraft guidance systems, and medical devices.

If you are interested in learning more about IPS Forth, I encourage you to check out the following resources:

- [The IPS Forth website](#)
- [The Forth Wiki](#)
- [The IPS Forth mailing list](#)

I hope this article has been helpful. Please let me know if you have any questions.



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