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# propellerforth

*Interactive ANS-subset  
Forth for the Parallax  
Propeller microcontroller*

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## SupportedTargets

Updated Dec 30, 2007 by [cbiffle](#)

*Information about the supported target  
boards for PropellerForth.*

When preparing a new release of [PropellerForth](#), we compile and test it on all of the Propeller-based boards listed below.

In practice, Propeller-based boards not listed here will usually work. The main factors that affect whether or not you can run [PropellerForth](#) are:

- Whether a serial console is available (currently required to get started);
- Which pins the serial console is attached to (all boards we're aware of use pins 30 and 31);
- How the system's clock is configured (if the crystal speed and PLL settings match a supported board's configuration, you can use its image).

## Officially Supported Targets

### Parallax Demo Board

[Product Page](#)

Supports booting from the on-board EEPROM or loading and running [PropellerForth](#) from RAM.

The Demo Board is effectively the Propeller reference design; most third-party boards use a similar configuration. See the "unofficially supported targets" section below for a few (far cheaper!) boards.

Clock configuration:

- Crystal: 5MHz
- PLL: 16x (80MHz)

## HYDRA

### [Product Page](#)

Supports booting from on-board EEPROM, EEPROM cartridges, or loading and running [PropellerForth](#) from RAM.

Beyond the clock configuration, the main difference between the HYDRA and the Demo Board is the EEPROM configuration. The board sports a 128KiB EEPROM, and 128KiB cartridges are available. The EEPROM address space mapping is as follows:

- No cartridge inserted: on-board EEPROM mapped to 0x00000 - 0x1FFFF
- 128K cartridge inserted: cartridge mapped to 0x00000 - 0x1FFFF, on-board EEPROM mapped to 0x20000 - 0x2FFFF

Smaller EEPROMs (either on-board or on cartridges) are mapped to the same locations in the address space, but will leave holes at the top of each 128KiB space.

Clock configuration:

- Crystal: 10MHz
- PLL: 8x (80MHz)

## Unofficially Supported Targets

We *expect* these boards to work, because their configurations are quite similar to either the Demo Board or HYDRA. However, we do not rigorously test these configurations, and bugs may appear.

### Propeller Proto Board

#### [Product Page](#)

A sort of bare-bones (and much cheaper!) Demo Board. Has TTL serial only, so

while [PropellerForth](#)'s console should work, you'll probably want a level shifter (Parallax's PropPlug or Acroname's serial adapters should work).

**Note:** The Proto Board includes a 64KiB EEPROM, instead of the Demo Board's 32KiB. [PropellerForth](#)'s EEPROM word set can access the upper 32KiB, which you can use for whatever you wish.

**Use:** Demo Board release.

## PropRPM

### [Product Page](#)

Somewhere between the Demo Board and the Proto Board, but with the Demo Board's limited EEPROM space.

**Use:** Demo Board release.

## SpinStamp

### [Product Page](#)

A very slick DIP-format single-chip Propeller. Serial console *is not routed to the I/O pins*, and is only available via the PropClip header at the end of the chip. When using [PropellerForth](#), expect to spend a lot of time with a PropClip attached.

**Use:** HYDRA release (note that the SpinStamp's clock configuration matches the HYDRA, but it does not support the additional EEPROM space of the HYDRA.)

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