

# Installing new Cores



## Overview

The Vampire boards can be **updated** to use the latest Core improvements, such as:

- Bug fixes
- New features
- Speed improvements
- Compatibility improvements

The Vampire Core contains the following modules:

- [APOLLO 68080 Core](#)
- [SAGA Core](#)

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## Two different methods



### Method #1: Using .JIC binaries with Quartus Prime Programmer

This is the preferred method, because it is the only solution in case of a broken system (“brick”).

It requires:

- A USB-Blaster and cables.
- A Windows or Linux computer.
- Quartus Prime Programmer installed.
- .JIC binary file dedicated to the target Vampire.

#### WARNING

Quartus Prime Programmer does **NOT** protect the Vampire against unsuitable .JIC binaries.

→ [Installing new Cores using Quartus Prime Programmer](#)

## Method #2: Using FlashROM executables

This the secondary method because of the following risk:

### WARNING

FlashROM can brick a weak board! Prefer Method #1 if possible.

- Runs directly from AmigaOS 3.x.
- Easy to use, totally configuration-free.
- Protects against incorrect hardware target.
  - Reads the current revision and forbids flashing if wrong hardware.
- Updates the version string stored in the Vampire Core.

→ [Installing new Cores using FlashROM executables](#)

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