

## \*-kmc-solid\_\_\*

### Tier: 3

SOLID embedded development platform by Kyoto Microcomputer Co., Ltd.

The target names follow this format: `$ARCH-kmc-solid_$KERNEL-$ABI`, where `$ARCH` specifies the target processor architecture, `$KERNEL` the base kernel, and `$ABI` the target ABI (optional). The following targets are currently defined:

Target name	target_arch	target_vendor	target_os
aarch64-kmc-solid_asp3	aarch64	kmc	solid_asp3
armv7a-kmc-solid_asp3-eabi	arm	kmc	solid_asp3
armv7a-kmc-solid_asp3-eabi-hf	arm	kmc	solid_asp3

## Designated Developers

- @kawadakk

## Requirements

This target is cross-compiled. A platform-provided C compiler toolchain is required, though it can be substituted by GNU Arm Embedded Toolchain for the purpose of building Rust and functional binaries.

## Building

The target can be built by enabling it for a `rustc` build.

```
[build]
target = ["aarch64-kmc-solid_asp3"]
```

Make sure `aarch64-kmc-elf-gcc` is included in `$PATH`. Alternatively, you can use GNU Arm Embedded Toolchain by adding the following to `config.toml`:

```
[target.aarch64-kmc-solid_asp3]
cc = "arm-none-eabi-gcc"
```

## Cross-compilation

This target can be cross-compiled from any hosts.

## Testing

Currently there is no support to run the `rustc` test suite for this target.

## Building Rust programs

Building executables is not supported yet.

If `rustc` has support for that target and the library artifacts are available, then Rust static libraries can be built for that target:

```
$ rustc --target aarch64-kmc-solid_asp3 your-code.rs --crate-type staticlib  
$ ls libyour_code.a
```

On Rust Nightly it's possible to build without the target artifacts available:

```
cargo build -Z build-std --target aarch64-kmc-solid_asp3
```