## **Known Issues**

This section informs you about known "gotchas". Keep in mind, that this section is (and always will be) incomplete. For suggestions and amendments, feel free to contribute to this guide.

## **Target Features**

Most target-feature problems arise, when mixing code that have the target-feature *enabled* with code that have it *disabled*. If you want to avoid undefined behavior, it is recommended to build *all code* (including the standard library and imported crates) with a common set of target-features.

By default, compiling your code with the \_C target\_feature flag will not recompile the entire standard library and/or imported crates with matching target features. Therefore, target features are generally considered as unsafe.

Using #[target feature] on individual functions makes the function unsafe.

## Examples:

Target- Feature	Issue	Seen on	Description	Details
+soft- float and -sse	Segfaults and ABI mismatches	x86 <b>and</b> x86- 64	The x86 and x86_64 architecture uses SSE registers (aka xmm) for floating point operations. Using software emulated floats ("soft-floats") disables usage of xmm registers, but parts of Rust's core libraries (e.g. std::f32 or std::f64) are compiled without soft-floats and expect parameters to be passed in xmm registers. This leads to ABI mismatches.  Attempting to compile with disabled SSE causes the same error, too.	<u>#63466</u>