

tls_model

The tracking issue for this feature is: None.

Option `-Z tls-model` controls TLS model used to generate code for accessing `#[thread_local] static` items.

Supported values for this option are:

- **global-dynamic** - General Dynamic TLS Model (alternatively called Global Dynamic) is the most general option usable in all circumstances, even if the TLS data is defined in a shared library loaded at runtime and is accessed from code outside of that library. This is the default for most targets.
- **local-dynamic** - model usable if the TLS data is only accessed from the shared library or executable it is defined in. The TLS data may be in a library loaded after startup (via `dlopen`).
- **initial-exec** - model usable if the TLS data is defined in the executable or in a shared library loaded at program startup. The TLS data must not be in a library loaded after startup (via `dlopen`).
- **local-exec** - model usable only if the TLS data is defined directly in the executable, but not in a shared library, and is accessed only from that executable.

`rustc` and LLVM may use a more optimized model than specified if they know that we are producing an executable rather than a library, or that the `static` item is private enough.