## Interface for registering and calling firmware-specific operations for ARM

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Some boards are running with secure firmware running in TrustZone secure world, which changes the way some things have to be initialized. This makes a need to provide an interface for such platforms to specify available firmware operations and call them when needed.

Firmware operations can be specified by filling in a struct firmware\_ops with appropriate callbacks and then registering it with register firmware ops() function:

```
void register firmware ops(const struct firmware ops *ops)
```

The ops pointer must be non-NULL. More information about struct firmware\_ops and its members can be found in arch/arm/include/asm/firmware.h header.

There is a default, empty set of operations provided, so there is no need to set anything if platform does not require firmware operations.

To call a firmware operation, a helper macro is provided:

the macro checks if the operation is provided and calls it or otherwise returns -ENOSYS to signal that given operation is not available (for example, to allow fallback to legacy operation).

Example of registering firmware operations:

## Example of using a firmware operation: