

DEVLOG

Machine info

```
$ cat /etc/os-release
VERSION="38 (Workstation Edition)"
ID=fedora

$ clang --version
clang version 16.0.6 (Fedora 16.0.6-3.fc38)
Target: x86_64-redhat-linux-gnu

$ gcc --version
gcc (GCC) 13.2.1 20231011 (Red Hat 13.2.1-4)
```

Notes

- While v1.1.0 successfully compiles using `cargo build --release`, it encounters linker errors (with default `cc`) when running `cargo test --release`. Changing linker to `rust-ld` at `.cargo/config.toml` didn't fix it.

```
[dependencies]
gstd = "1.1.0"
gtest = "1.1.0" # fails running `cargo test --release`
...
```

- It is safe to use dependencies from `gstd` at revision 175f69b7, versions from v1.0.1 to v1.0.5 are ok. This has been validated using the toolchain `nightly-2023-10-10` (rustc 1.75). Prior to revision 175f69b7, issues arose due to:
 - unknown feature(`panic_oom_payload`) in `gstd/src/lib.rs:130`
 - invalid use `alloc::alloc::AllocErrorPanicPayload` in `/gstd/src/common/handlers.rs:29`.Currently, all templates downloaded using `gear gcli new --template=$template` (gear-gcli 1.1.0) specify `gstd = { rev="946ac47" }`, which fails to compile, adding frictions for newcomers.

```
# Cargo.toml
[dependencies]
gstd = { git = "https://github.com/gear-tech/gear.git", rev = "175f69b7" }
# gstd = { git = "https://github.com/gear-tech/gear.git", tag = "v1.0.2" } # also works

# rust-toolchain.toml
[toolchain]
channel = "nightly-2023-10-10"
```

- Ensure that the dependency `gear-wasm-builder` is specified under `[build-dependencies]`. Avoid setting the `wasm-opt` feature in the

`gear-wasm-builder` dependency because it leads to multiple compilation errors. It has been verified that the optimization is performed without the `wasm-opt` feature since `^1.0.1`.

Minimal working configuration

Cargo.toml

```
[package]
name = "hello-world"
version.workspace = true
edition.workspace = true

[dependencies]
gstd = { workspace = true, features = ["debug"] }
gmeta.workspace = true
gmeta.workspace = true

[dev-dependencies]
gstd = { workspace = true, features = ["debug"] }
gtest.workspace = true
gclient.workspace = true

[workspace.package]
version = "0.1.0"
edition = "2021"

[workspace.dependencies]
gstd = { git = "https://github.com/gear-tech/gear.git", tag = "v1.0.5" }
gclient = { git = "https://github.com/gear-tech/gear.git", tag = "v1.0.5" }
gmeta = { git = "https://github.com/gear-tech/gear.git", tag = "v1.0.5" }
gtest = { git = "https://github.com/gear-tech/gear.git", tag = "v1.0.5" }
gear-wasm-builder = { git = "https://github.com/gear-tech/gear.git", tag = "v1.0.5" }

[features]
binary-vendor = []
```

rust-toolchain.toml

```
[toolchain]
channel = "nightly-2023-10-10"
targets = ["wasm32-unknown-unknown"]
profile = "minimal"
components = ["rustfmt", "clippy"]
```