Apparatus Features

The current list of features includes:

- ECS at max. A complete Unreal Engine integration of the data-oriented workflow.
- Loyal to the ecosystem. Both C++ and Blueprint development is supported.
- Straightforward editing. Assign and customize your Trait/Detail blocks right from the Details Panel in Unreal Editor.
- Querying with ease. A versatile Component-including and Component-excluding filtering for the Mechanics.
- Lambda-based operatings with an automatic argument delivery.
- Bitwise Flagmark filtering support for a boolean-based state approach.
- Multiple Details of the same class on a single Subjective are supported. All of the available Detail combinations are processed in the operating body.
- Inheritance at best. The Detail classes can be inherited for extra modularity and flexibility.
- Dedicated in-Editor user experience touches for some clear reading, validation and overall ease of use.
- Several performance optimizations: caching, fast bit-array lookups, mainline Component indexing, manual Belt assignment and more.
- Full concurrent (multi-threaded) iterating support with a dedicated compile-time Solid semantic.
- An elegant and versatile custom networking solution built upon the Unreal“s replication and RPC functionality.
- Steady-ticking implementation for some extra stability of your game frame-dependent logic.
- Thoroughly documented API with a dedicated user manual wiki pages.

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