

PowerAPI_AppHint_Implementation

- [Introduction](#)
- [Environment Variables](#)
- [Normal Behavior](#)

Introduction

Full implementation of the AppHints feature exceeds the scope of the current project. The hints have been implemented as logging-only code in

lib/hints/hints.c

which allows hint usage to be monitored.

By default, hint logging is disabled. It is enabled by setting an environment variable in the context of the application to be monitored.

Environment Variables

Parameter	Default Value	Environment Variable
AppHint log file path	NULL	PWR_HINT_LOG_PATH
AppHint maximum file size	1 MiB	PWR_HINT_MAX_FILE_SIZE
AppHint maximum file count	5	PWR_HINT_MAX_FILE_COUNT

By default, AppHint logging is disabled. A file path must be specified to enable hint logging.

The maximum file size and file count control log rotation. See PowerAPI Error Logging for details.

Normal Behavior

When enabled, AppHint start, stop, progress, and destroy operations are logged. AppHint creation is not logged, since the API specification implies that AppHint objects can be created but never used. Destruction is logged since nothing in the API prevents a hint from being destroyed without first stopping it, and in any event, without saving state (which exceeds the scope of this implementation) we have no way of knowing if a given AppHint is active when it is destroyed.