

## Independent variables

Variable Name	Parameter	Description
Parallelism Configuration	DefaultMaxParallelism	Sets the maximum degree of parallel task execution.
	DefaultMaxLookAhead	Determines how many operations can be prepared ahead of execution for improved scheduling.
Logging Configuration	enableTracing	Enables tracing functionality that tracks request flows.
	consoleLogging	Controls whether log messages are written to console output during application execution.
	logLevel	Defines the minimum severity level for log processing and determines log volume.
Caching Configuration	maxCachedItems	Sets the maximum number of items that can be stored in the cache simultaneously.
	expirationInSeconds	Determines how long cached items remain valid before expiration.
Compression Configuration	enableResponseCompression	Enables compression of HTTP responses.
Garbage Collection Configuration	DOTNET_gcServer	Enables server garbage collection mode with dedicated threads for multi-core environments.
	DOTNET_gcConcurrent	Enables concurrent garbage collection, allowing the collector to run with application threads.
	DOTNET_GCConserveMemory	Sets memory conservation level on a 0–9 scale for collection aggressiveness.
	DOTNET_GCLOHThreshold	Defines size threshold for Large Object Heap allocation in bytes.
	DOTNET_GCDynamicAdaptationMode	Enables dynamic adaptation of garbage collection behavior based on allocation patterns.
	DOTNET_GCRetainVM	Controls whether the garbage collector releases virtual memory back to the operating system.
	DOTNET_GCNoAffinitize	Disables processor affinity for garbage collection threads.
	DOTNET_GCHeapCount	Limits the number of garbage collection heaps created for memory management.
	DOTNET_GCHighMemPercent	Sets memory usage threshold percentage for triggering garbage collection cycles.