Article

Spotlight Query Performance

Review how your app uses Spotlight queries.

Overview

The data in this report contains information about on-device Spotlight query performance.

- Territories: Worldwide

- Platforms: iOS, iPadOS. For more information about iOS and iPadOS, see the Platforms section in Data Completeness and Corrections.

- Availability:

  - Daily: Every day.

- History: On request, data is available beginning with iOS 17.4 and iPadOS 17.4.

- Completeness: Data from devices that contribute to this report can arrive as late as 8 days after the date it generates on device. You can download recent data daily, but it might be incomplete, and data updates incrementally daily, until all late-arriving events are available.

- Privacy:

  - Includes data from users who have opted to share their data with Apple and developers.

  - Individual rows will only appear if they have a value of 5 or more.

- Data Context: You can analyze your data with additional context by comparing it with the data in the App Sessions Context report, which provides a count of unique devices that use your app on a specific day. For example, if your app performed an action detailed in this report on 10 unique devices on a specific day, and the App Sessions Context report shows there were 100 unique devices running your app that day, then you can approximate that 10% of the devices running your app performed that action.

Report Fields

Report Field	Description	Data Type
Count	Number of times the event occurred	`integer`
Territory	Country or region in which the event occurred	`string`
Date	Date when the event occurred	`string`
Platform	OS version on the device on which the event occurred	`string`
Device	Type of device on which the event occurred	`string`
Build	Build of device on which event occurred	`string`
Unique Devices	The count of unique devices	`integer`
Release Type	Type of software release	`string`
Query Kind	The kind of query	`string`
Quality of Service Level	The query quality of service level	`string`
Cancel Status	Whether someone canceled the query	`boolean`
Protection Class	Protection class of the query	`string`
Total Execution Time	The total time of the query from submitting to the scheduler to finish	`float`

Glossary

Dimension	Value	Definition
Query Kind	DefaultQuery	A normal CoreSpotlight query
Query Kind	GroupedTopNQuery	A top-N query with grouped results (SPI)

Dimension	Value	Definition
Query Kind	FlatTopNQuery	A top-N query
Query Kind	CompletionQuery	Query to request query completions
Query Kind	CoalescingCollectingQuery	Query to collect a coalesced result set (unique values of attribute) (SPI)
Query Kind	CountingQuery	Query to count the number of results (SPI)
Query Kind	GroupedCountingQuery	Query to count the number of results per group (SPI)
Quality of Service Level	QOS_CLASS_UNSPECIFIED	OS quality of service level
Quality of Service Level	QOS_CLASS_BACKGROUND	OS quality of service level
Quality of Service Level	QOS_CLASS_UTILITY	OS quality of service level
Quality of Service Level	QOS_CLASS_DEFAULT	OS quality of service level
Quality of Service Level	QOS_CLASS_USER_INITIATED	OS quality of service level
Quality of Service Level	QOS_CLASS_USER_INTERACTIVE	OS quality of service level

Dimension	Value	Definition
Protection Class	NSFileProtectionComplete	Standard file protection mode
Protection Class	NSFileProtectionCompleteUnlessOpen	Standard file protection mode
Protection Class	NSFileProtectionCompleteUntilFirstUserAuthentication	Standard file protection mode
Protection Class	Priority	SPI (no third party data in this class)
Total Execution Time	0	Represents range from –Infinity to 0.05
Total Execution Time	1	Represents range from 0.05 to 0.1
Total Execution Time	2	Represents range from 0.1 to 0.15
Total Execution Time	3	Represents range from 0.15 to 0.2
Total Execution Time	4	Represents range from 0.2 to 0.25
Total Execution Time	5	Represents range from 0.25 to 0.3
Total Execution Time	6	Represents range from 0.3 to 0.4
Total Execution	7	Represents range from 0.4 to 0.5

Dimension	Value	Definition
Time		
Total Execution Time	8	Represents range from 0.5 to 0.6
Total Execution Time	9	Represents range from 0.6 to 0.7
Total Execution Time	10	Represents range from 0.7 to 0.8
Total Execution Time	11	Represents range from 0.8 to 0.9
Total Execution Time	12	Represents range from 0.9 to 1
Total Execution Time	13	Represents range from 1 to 1.5
Total Execution Time	14	Represents range from 1.5 to 2
Total Execution Time	15	Represents range from 2 to 2.5
Total Execution Time	16	Represents range from 2.5 to 3
Total Execution Time	17	Represents range from 3 to 3.5

Dimension	Value		Definition
Total Execution Time	18		Represents range from 3.5 to 4
Total Execution Time	19		Represents range from 4 to 5
Total Execution Time	20		Represents range from 5 to 6
Total Execution Time	21		Represents range from 6 to 7
Total Execution Time	22		Represents range from 7 to 8
Total Execution Time	23		Represents range from 8 to 9
Total Execution Time	24		Represents range from 9 to 10
Total Execution Time	25		Represents range from 10 to 15
Total Execution Time	26		Represents range from 15 to 20
Total Execution Time	27		Represents range from 20 to 25
Total Execution	28		Represents range from 25 to 30

Dimension	Value		Definition
Time			
Total Execution Time	29		Represents range from 30 to 60
Total Execution Time	30		Represents range from 60 to 90
Total Execution Time	31		Represents range from 90 to 120
Total Execution Time	32		Represents range from 120 to 150
Total Execution Time	33		Represents range from 150 to 180
Total Execution Time	34		Represents range from 180 to 240
Total Execution Time	35		Represents range from 240 to 300
Total Execution Time	36		Represents range from 300 to +Infinity

See Also

Performance

📄 AirPlay Errors

Analyze AirPlay errors in your apps.

📄 AirPlay Performance

Review AirPlay performance in your apps.

📄 App Crashes Expanded

Analyze the rate at which your app crashes.

📄 App Installs Performance

Analyze details about installation success and failure rates for your apps.

📄 App Storage Reads and Writes

Analyze how often your app uses disk reads and writes.

📄 Audio Overloads

Analyze how many audio glitches people experience in your app.

📄 Bluetooth LE Session Duration

Analyze how long your app uses Bluetooth Low Energy (LE) connections.

📄 Bluetooth System Wakes

Analyze details about bluetooth system wakes that your app causes.

📄 CAMetalLayer Performance

Review CAMetalLayer metadata and performance in your app.

📄 Custom Language Model Builds Failed

Analyze how often your app-triggered rebuild of a custom language model failed.

📄 Display Power Information

Review your app's impact on display pixel attributes.

📄 HTTP Live Streaming Playback Errors

Analyze playback errors that your app receives.

📄 Launch Image Over Memory Limit

Analyze how often your app fails to load because it's over the memory limit.

📄 Networking Connection Activity

Review how your app uses network connections.

📄 Streaming Downloads Performance

Review download performance when using the AVAssetDownloadTask APIs in your apps.