

		Defined at (Where to define)										Triggered by (How is it triggered)															Effect			Complementary													
	Article ID	Line of Code	Statement in a line of code	By config on	Over Object	Over Property Object	Field	Global variable	Local variable	Over a message	Written in code	Block of memory	Line/Statement hit	Data changes	Memory Address changes	Expression Satisfied	Expression Value Change	Expression satisfied on object ID	Condition at Hit	Hit Count	Event Triggered	Method/Function Called	Method Enter	Method Exit	Class is Loaded	Exception throw	Field Read	Field Write	Test failure	Message reaches the read queue	Thread Start / Terminate d	Does not stop execution	Stop execution	Show log message	Condition if as derivative action	Has derivative actions	Is a derivative action	Has Hardware Support	Multithreaded	Not enough information			
IDEs	Visual Studio	Breakpoint	X										X			X	X		X	X												X	X	X	X	X							
		Tracepoint	X											X			X	X														X	X	X									
		Object Breakpoint	X											X			X		X														X	X	X								
		Function Breakpoint			X																X	X															X						
	Visual Studio Code	Data Breakpoint													X																												
		Data Breakpoint C++								X																																	
		Breakpoint	X											X			X			X	X															X	X						
		Logpoint	X											X						X	X											X	X	X	X	X							
	IntelliJ	Conditional breakpoint	X														X			X	X												X	X	X	X	X				X		
		Inline breakpoint	X	X										X			X			X	X												X	X	X	X	X						
		Function breakpoint			X															X	X															X	X	X					
		Data breakpoint							X						X																					X	X	X					
	PyCharm	Line breakpoint	X											X			X			X													X	X	X	X	X						
		Method breakpoint	X			X								X						X				X	X								X	X	X	X	X						
		Field Watchpoint						X							X									X	X				X	X					X	X							
		Exception breakpoint			X																	X													X	X							
	PhpStorm	Object Breakpoint	X											X					X																X	X							
		Breakpoint	X											X			X			X	X														X	X	X						
		Line breakpoint	X											X					X	X															X	X	X						
		Exception breakpoint			X																	X													X	X	X						
	Eclipse	Breakpoint log	X											X																			X	X	X				X				
		Breakpoint stack trace	X											X																			X	X	X								
		Breakpoint	X											X			X			X	X														X	X	X						
		Line breakpoint	X											X			X			X	X														X	X	X						
	NetBeans	Method breakpoint			X												X			X	X					X									X	X	X						
		Exception breakpoint			X												X			X							X								X	X	X						
		Variable breakpoint						X		X						X			X	X															X	X	X						
		Thread breakpoint			X																												X		X	X							
	Xcode	Logging breakpoint	X											X																			X	X	X								
		Breakpoint	X											X																					X	X	X						
		Event breakpoint			X																	X						X							X	X							
		Exception breakpoint			X																	X						X							X	X							
	Android Studio	Symbolic Breakpoint																				X	X												X	X							
		Method breakpoint			X																	X	X												X	X							
		Test failure breakpoint			X																	X	X												X	X							
		Breakpoint	X											X																					X	X							
	Articles Sardin: A Versatile Sc	Exception breakpoint			X																						X								X	X							
		Watchpoint							X				X			X												X							X	X							
		Breakpoint	X											X																					X	X							
		Breakpoint	X											X																					X	X							
	Analysis and exploration	Conditional breakpoint	X											X			X			X															X	X							
Expression Watchpoint				X												X																		X	X								
Transition Watchpoint				X												X																		X	X								
Watchpoint																																			X	X							
Debugging with Control	Static breakpoint	X											X																					X	X							X	
	Dynamic breakpoint																																	X	X								
	Breakpoint	X											X			X			X														X	X							X		
	Data breakpoint				X										X																			X	X								
Efficient Data Breakpoint	Watchpoint											X			X																		X	X									
	Line breakpoint												X																					X	X								
	Method breakpoint																																		X	X							
	Data Access breakpoint																																		X	X							
How to Do a Million Watchpoints	Class breakpoint																																		X	X							
	Exception breakpoint			X																															X	X							
	Method breakpoint			X																															X	X							
	Watchpoint												X																					X	X								
On the Dichotomy of Debugging	Line breakpoint																																		X	X							
	Method breakpoint																																		X	X							
	Data Access breakpoint																																										

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Lightweight Memory Tracing	A63	Watchpoint									X																					X						X		
	A64	Watchpoint							X				X			X			X													X						X		
Debugging Distributed Systems	A65	Conditional breakpoint	X																														X							
		Watchpoint									X																												X	
Minerva: Distributed Tracing	A66	Data breakpoint									X																											X		X
	A67	Watchpoint									X																											X		X
Revisiting the ARM Debugger	A67	Watchpoint																																				X		X
		Breakpoint	X																																			X		X
GDB team: GDB and Remote	A68	Watchpoint					X					X		X													X	X										X		X
		Line breakpoint	X																																					
Questik		Watchpoint						X	X			X		X																										
	Response 35	Method breakpoint			X															X		X	X									X		X						
Response 36		Line breakpoint	X									X																												
		Breakpoint	X									X																												
Response 53		Debugger breakpoint								X		X																												
		Conditional breakpoint	X												X			X	X																					
Response 55		Breakpoint	X									X																												
		Conditional breakpoint	X													X		X	X																					
Response 56		Breakpoint	X									X																												
		Line breakpoint	X									X																												
Response 64		Line breakpoint	X									X																												
		Watchpoint					X	X					X	X		X											X	X								X				
Response 66		Debugger breakpoint								X		X																												
		Breakpoint	X									X																												
		Line breakpoint	X									X																												
		Breakpoint	X									X																												
Response 68		Method breakpoint			X															X		X	X																	
		Debugger breakpoint								X		X																												
		Watchpoint					X	X					X		X												X	X									X			
		Conditional breakpoint	X													X			X	X																				
Response 71		Breakpoint	X									X																												
		Breakpoint	X									X																												
Response 72		Line breakpoint	X									X																												
		Conditional breakpoint	X												X			X	X																					
		Line breakpoint	X									X																												
		Conditional breakpoint	X														X	X																						
Response 74		Code breakpoint								X		X							X	X																				
		Field watchpoint					X					X		X												X	X													
		Watchpoint						X	X				X																											
		Line breakpoint	X									X																												
Response 77		Conditional breakpoint	X									X				X			X	X																				
Response 82		Breakpoint	X									X																												
Response 86		Line breakpoint	X									X																												
Response 87		Breakpoint	X									X																												
		Conditional breakpoint	X					X	X							X		X																						
		Watchpoint										X																												
		Breakpoint	X																																					
Response 89		Event breakpoint			X							X									X																			
		Exception breakpoint			X																X						X													
		Conditional breakpoint	X																																					
		Line breakpoint	X									X							X	X																				
Response 99		Variable breakpoint					X	X																																
		Line breakpoint	X									X		X																										
Response 102		Conditional breakpoint	X									X				X			X	X																				
		Method breakpoint			X															X		X	X																	
		Watchpoint					X	X						X		X											X	X												
		Event breakpoint			X															X																				
Response 104		Line breakpoint	X									X																												
		Statement breakpoint	X									X																												
		Code breakpoint	X																																					

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