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Stat Server User's Guide

Appendix A: Statistical Formula Definition

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Parameter	Possible Value
formula	• <aggregate>
aggregate	• <aggr_boolean> ? <aggregate> : <aggregate> • <aggregate> ^ <aggregate> • <aggregate> % <aggregate> • <aggregate> + <aggregate> • <aggregate> - <aggregate> • <aggregate> * <aggregate> • <aggregate> / <aggregate> • - <aggregate> • (<aggregate>) • <system_proc1> (<aggregate>) • <system_proc2> (<aggregate> , <aggregate>) • greatest (<aggregate_list>) • least (<aggregate_list>) • <aggregate_func> (<action_types_list> ; <number> ; <condition>) • <aggregate_func> (<action_types_list> ; <number>) • COUNT (<action_types_list> ; <condition>) • COUNT (<action_types_list>) • @COUNT (<action_types_list> ; <condition>) • @COUNT (<action_types_list>) • <float literal> * <int literal> * <sys_var>
aggr_boolean	• <aggr_boolean> & <aggr_boolean> • <aggr_boolean> <aggr_boolean>

Parameter	Possible Value
	• ~ <aggr_boolean> • (<aggr_boolean>) • <aggregate> = <aggregate> • <aggregate> != <aggregate> • <aggregate> < <aggregate> • <aggregate> <= <aggregate> • <aggregate> > <aggregate> • <aggregate> >= <aggregate>
aggregate_list	• <aggregate> • <aggregate> , <aggregate_list>
action_operand	• <action type> • ~ <action_type> • *
action_types_list	• <action_operand> • <action_types_list> , <action_operand>
condition	• <boolean>
boolean	• <boolean> & <boolean> • <boolean> <boolean> • ~ <boolean> • (<boolean>) • <kv_boolean> • <number> = <number> • <number> != <number> • <number> < <number> • <number> <= <number> • <number> > <number> • <number> >= <number>

Parameter	Possible Value
	• <code><string> = <string></code> • <code><string> != <string></code> • <code>rank_lt (<number> , <int literal>)</code> • <code>rank_gt (<number> , <int literal>)</code>
number	• <code><boolean> ? <number> : <number></code> • <code>greatest (<number>_list)</code> • <code>least (<number>_list)</code> • <code><number> ^ <number></code> • <code><number> % <number></code> • <code><number> + <number></code> • <code><number> - <number></code> • <code><number> * <number></code> • <code><number> / <number></code> • <code>- <number></code> • <code>(<number>)</code> • <code><system_proc1> (<number>)</code> • <code><system_proc2> (<number> , <number>)</code> • <code><num_attr></code> • <code><kv_number></code> • <code><float literal></code> • <code><int literal></code> • <code>convert (<string>)</code> • <code><sys_var></code>
number_list	• <code><number></code> • <code><number> , <number_list></code>
num_attr	• <code>duration</code> • <code>start</code> • <code>end</code>

Parameter	Possible Value
string	• <string> + <string> • <kv_string> • sub (<string> , <int literal> , <int literal>) • upper (<string>) • lower (<string>) • <string_literal>
kv_string	• kvstr (<kv_attrib> , <string>) • kvstr (<kv_attrib> , <string> , <int>)
kv_number	• kvnum (<kv_attrib> , <string> , <int>) • kvnum (<kv_attrib> , <string>) • kvsum (<kv_attrib> , <string>) • kvmin (<kv_attrib> , <string>) • kvmax (<kv_attrib> , <string>) • kvavg (<kv_attrib> , <string>)
kv_boolean	• kvexists (<kv_attrib> , <string> , <string>)
kv_attrib	• <kv_atomic_attrib> • kvlist (<kv_attrib> , <string>) • kvlist (<kv_attrib> , <string> , <int>)
kv_atomic_attrib	• udata • global_udata • reasons • extensions • system
int	• <int literal> • - <int literal>

Parameter	Possible Value
system_proc1	• log • exp • sqrt • sin • cos • abs • ceil • floor
system_proc2	• pow
aggregate_func	• SUM • MAX • MIN • AVG • @SUM • @MAX • @MIN • @AVG
sys_var	• \$istart