

1 a + b (Numerical)

Negligible

2 a and b

Negligible

3 a as b

Negligible

4 avg(a)

$x := (\text{number of items in } a) - 1$
 $0.171303 + 0.00296116x + 7.91336 \times 10^{-7}x^2$
 $r^2 = 0.994094$

5 bag(a)

Negligible

6 a + b (Strings)

Negligible

7 count(a)

Negligible

8 a_1, a_2, \dots, a_n

$x := n - 1$

$0.226851 - 0.00550817x + 0.0000146711x^2 + 4.80612 \times 10^{-8}x^3$

$r^2 = 0.840262$ Note: If $x < 182$, just use 0

9 **if(a)**

Negligible

10 **a contains b**

$x := (\text{number of items in a}) - 1$

$-0.0438918 + 6.17165 \times 10^{-7}x^2$

$r^2 = 0.906365$

11 **deref(a)**

Negligible

12 **a / b**

Negligible

13 **a.b**

Negligible

14 **a = b (Numerical)**

Negligible

15 $\mathbf{a = b}$ (Strings)

Negligible

16 $\mathbf{a.exists(b)}$

Negligible

17 $\mathbf{forall(a)}$

$x := (\text{number of items in } a) - 1$
 $0.368536 + 0.000115264x$
 $r^2 = 0.53822$

18 $\mathbf{forsome(a)}$

$x := (\text{number of items in } a) - 1$
 $-0.0183684 + 6.63148 \times 10^{-7}x^2$
 $r^2 = 0.912927$

19 $\mathbf{a > b}$

Negligible

20 $\mathbf{a >= b}$

Negligible

21 $\mathbf{a \text{ groupas } b}$

$x := (\text{number of items in } a) - 1$
 $-0.00591995 + 2.01902 \times 10^{-7}x^2$
 $r^2 = 0.316911$

22 a in b

Same as contains

23 a[b]

Negligible

24 a intersect b

Negligible

25 a join b

$x := (\text{number of items in a}) + (\text{number of items in b}) - 5$
 $0.993985 + 0.0000860779x^2$
 $r^2 = 0.999971$

26 a < b

Negligible

27 a <= b

Negligible

28 max(a)

$x := (\text{number of items in a}) - 1$
 $-0.00206558 + 0.0000179761x$
 $r^2 = 0.00486482$

29 min(a)

$x := (\text{number of items in } a) - 1$
 $0.247735 - 0.00106815x + 9.2684 \times 10^{-7}x^2$
 $r^2 = 0.794276$ Note: if $x \geq 831$, just use 0.

30 a % b

Negligible

31 a * b

Negligible

32 -a

Negligible

33 a <> b (Numerical)

Negligible

34 a <> b (Strings)

Negligible

35 now()

Negligible

36 a or b

Negligible

37 **a orderby b**

$x := (\text{number of items in a}) - 1$
 $-10.0698 + 0.893485x$
 $r^2 = 0.999835$

38 **a rangeas b**

Negligible

39 **ref(a)**

Negligible

40 **a ~~ b**

$x := \text{length of b}$

$$f(x) = \begin{cases} 0.676408; & x < 103 \\ 2.00131; & x \geq 103 \end{cases}$$

41 **struct(a)**

$x := (\text{number of items in a}) - 1$
 $4.00191 + 0.0000150654x^2$
 $r^2 = 0.83345$

42 **a - b**

Negligible

43 **a subtract b**

Negligible

44 sum(a)

$x := (\text{number of items in a}) - 1$
 $-0.161127 + 0.00383586x$
 $r^2 = 0.989362$

45 a union b

$x := (\text{number of items in a}) + (\text{number of items in b}) - 4$
 $0.195218 - 0.000825259x + 8.05861 \times 10^{-7}x^2$
 $r^2 = 0.791186$ Note: If $x \geq 654$, just use 0

46 a union b union c ... union n

$x := n - 1$
 $-0.277017 + 0.0000292739x^2$
 $r^2 = 0.999564$

47 unique(a)

Negligible

48 uniqueref(a)

Negligible

49 a where b

$x := \text{number of items in a}$
 $z := \text{number of conditions in b}$
 $9.25131 + 9.13024x + 0.0650857z$
 $r^2 = 0.999906$

50 **(boolean) a**

Negligible

51 **(int) a**

Negligible

52 **(real) a**

Negligible

53 **(string) a**

Negligible

54 **(date) a**

Negligible