Map: Generate key-value pair, from

Reduce: Evaluate each term by substituting for

Large Set (up to 1,000,000\*):

Split set *S* into smaller subsets and distribute the smaller sets to the map processors (\* the total size takes into account the size of each element)

Local Combine: Collect the “like terms” from a particular map node and compute coefficient,

Final Summation:

Collect all terms,, and return the sum

= 1

= 1

= 0

= 0

Reduce:

= 1

Split Set S:

[a, b, c, d, e, f, g, h]

*x* = 2

[(1, 1), (1, 1)]

[(0, 1)]

Map:

[d, e, f]

Map:

[a, b, c]

Map:

[g, h]

(0, 1)

(1, 1)

(1, 1)

(1, 1)

(0, 1)

(1, 1)

(1, 1)

(1, 1)

[(1, 1), (1, 1)]

**Local Combine:**

[(0, 1)]

[(1, 1), (1, 1)]