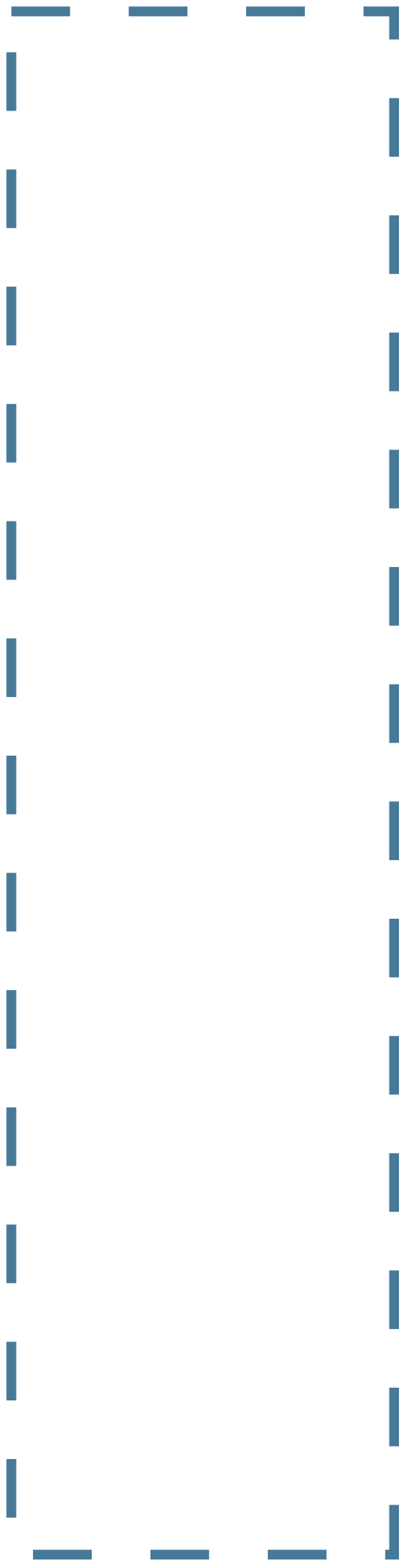
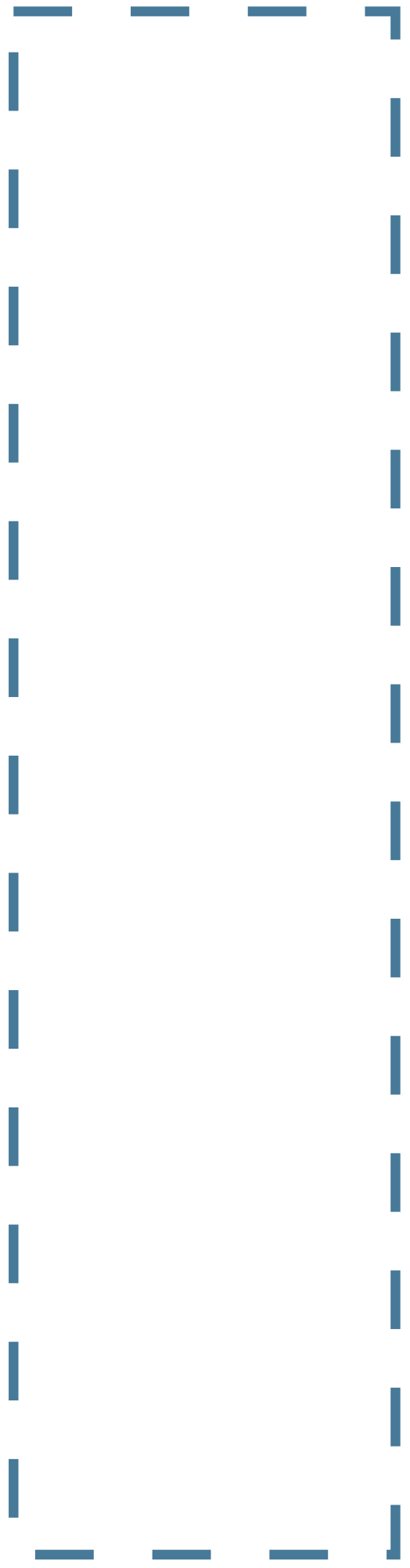

H2O.ai

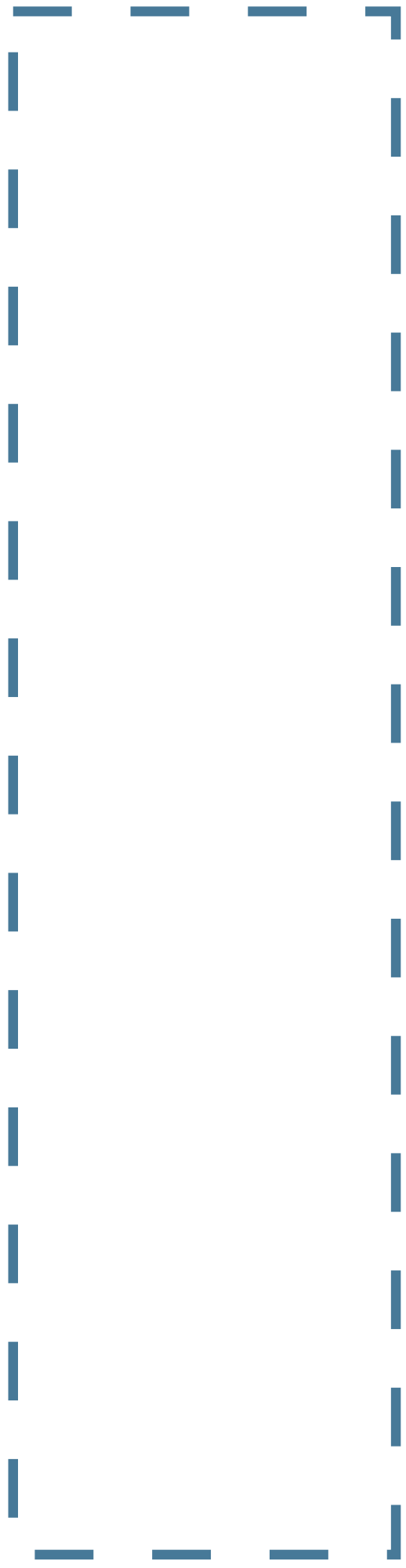
Tree Growth with Data Parallelism

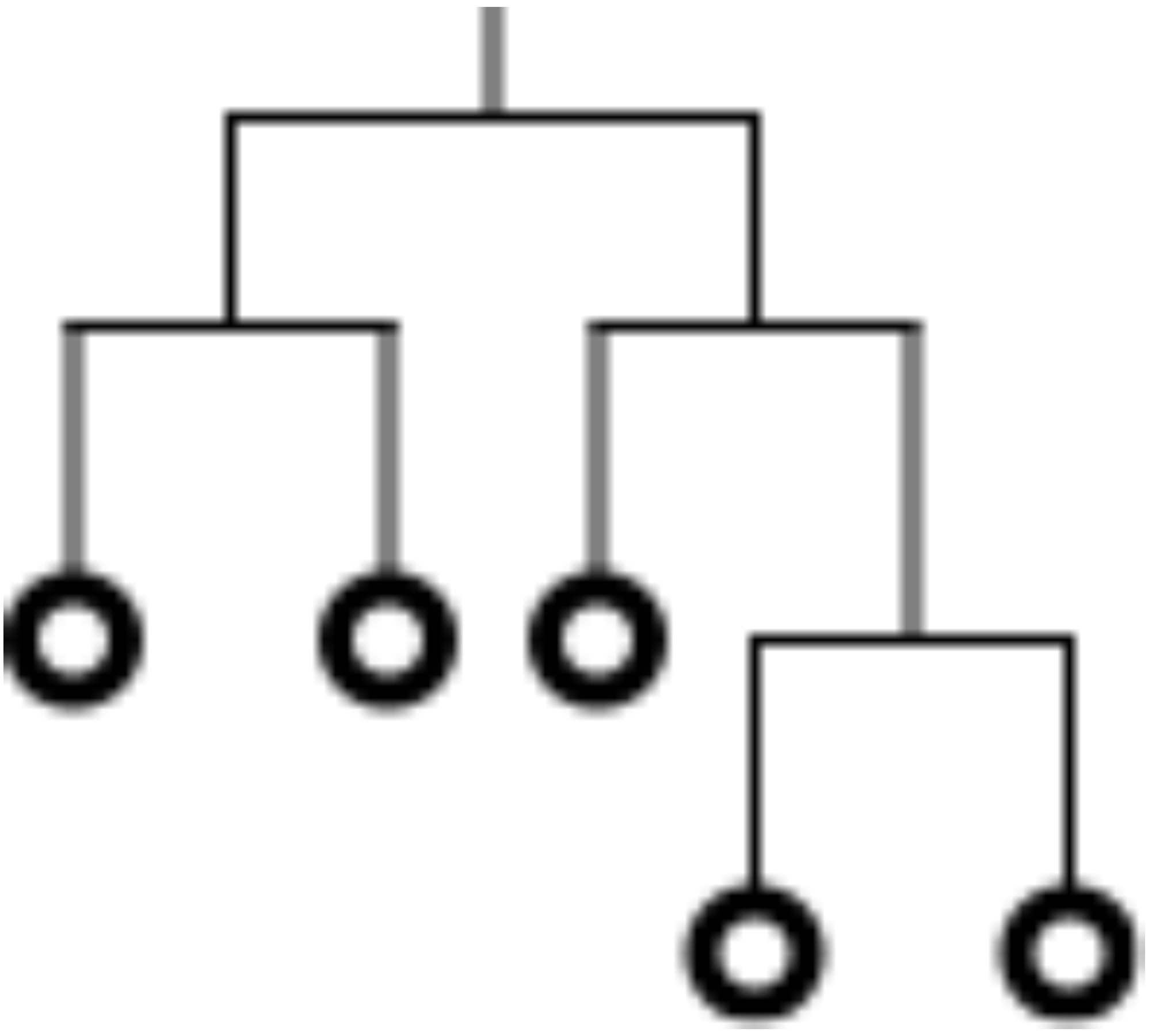
1

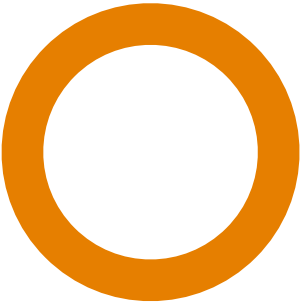
2



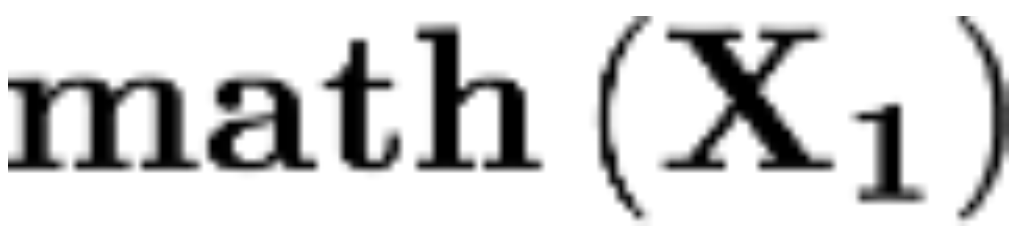








$$\mathbf{X} = \{\mathbf{X}_1, \ldots, \mathbf{X}_K\}$$


math (X1)

math (X2)


math (X_K)

$$\{X_i; t_i\} = f(\mathbf{math}\,(\mathbf{X_1}), \ldots, \mathbf{math}\,(\mathbf{X_K}))$$

Tree Growth with Data Parallelism

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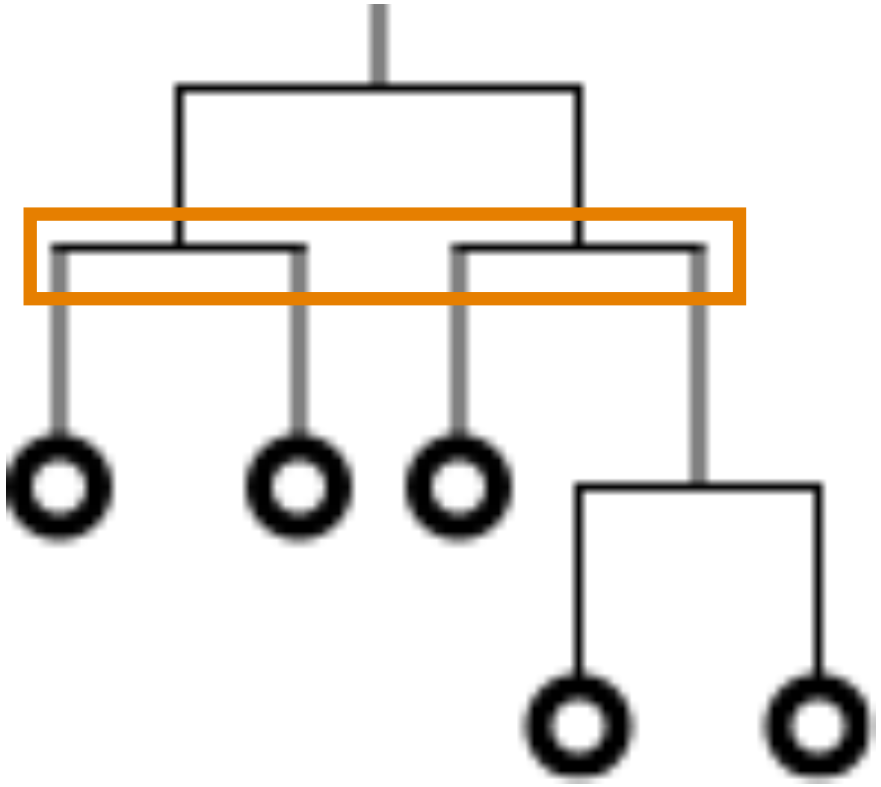
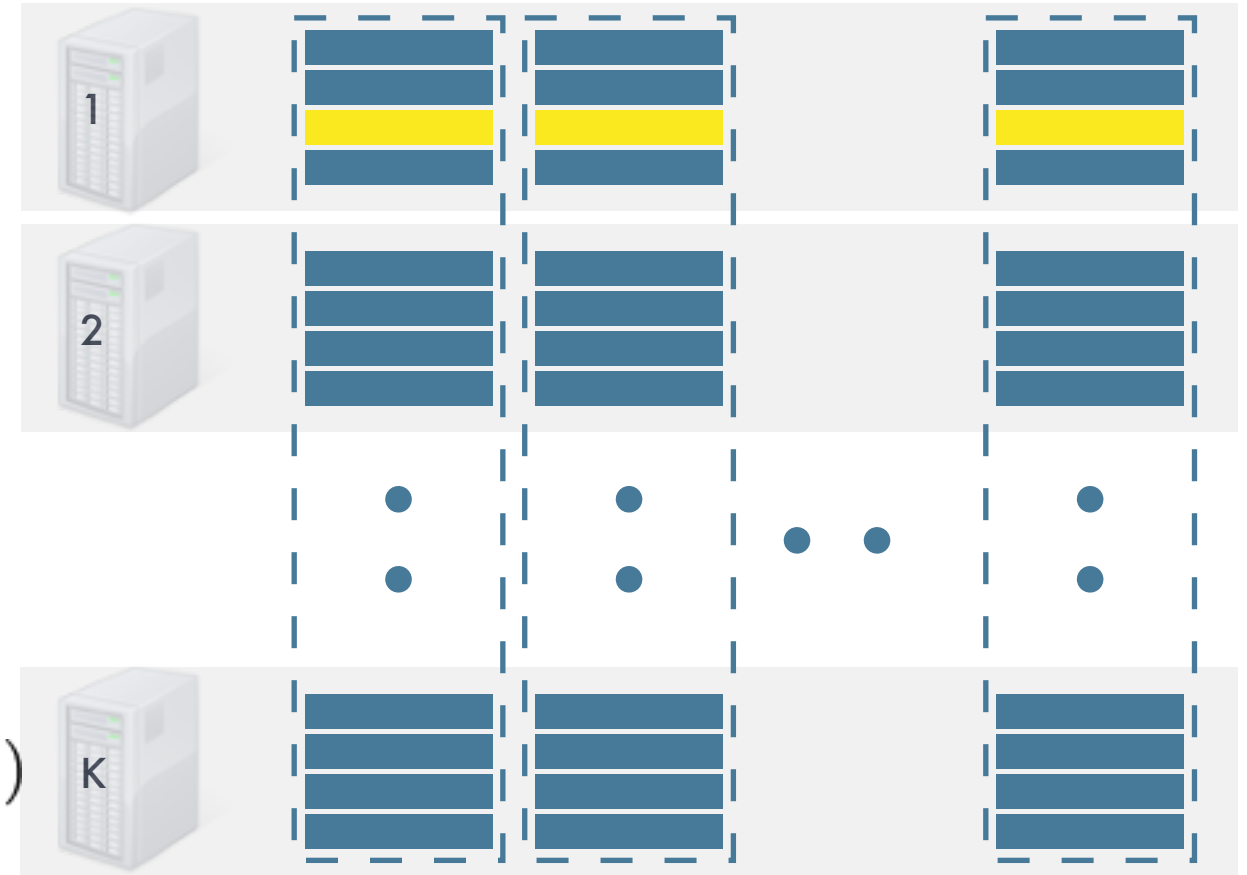


$$\mathbf{X} = \{\mathbf{X}_1, \ldots, \mathbf{X}_K\}$$

$\mathbf{math}\,(\mathbf{X_1})$

$\mathbf{math}\,(\mathbf{X_2})$

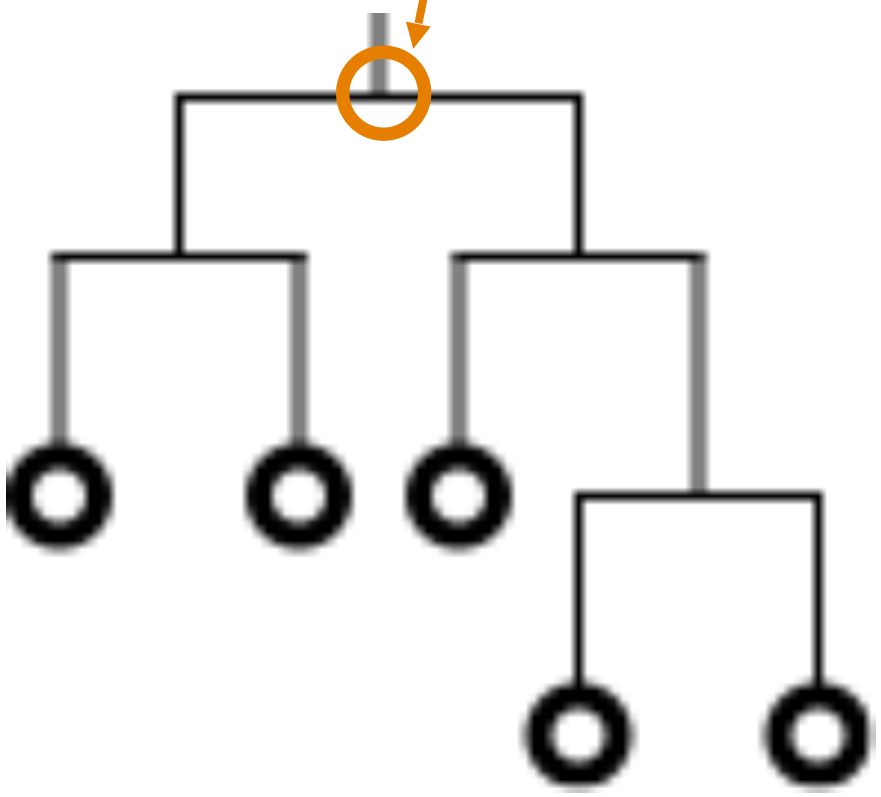
$\mathbf{math}\,(\mathbf{X_K})$



Full Data Parallelism for Each Level of Tree Growth!

Tree Growth with Data Parallelism

$$\{X_i; t_i\} = f(\mathbf{math}\,(\mathbf{X_1}), \ldots, \mathbf{math}\,(\mathbf{X_K}))$$



$$\mathbf{X} = \{\mathbf{X}_1, \ldots, \mathbf{X}_K\}$$

$\mathbf{math}\,(\mathbf{X_1})$

$\mathbf{math}\,(\mathbf{X_2})$

$\mathbf{math}\,(\mathbf{X_K})$