

Event A

Event B

Query on A's Duration

Query on A and B's Distance

encoder

decoder

`dur()`

\mathbf{v}

$g(x) = \tanh(x_2 - x_1)$

$\mathbf{c}^T \mathbf{v}$

Duration of A

+

$\mathbf{c}^T \mathbf{d}$

x

$g(\mathbf{p})$

=

pred

Start of A – Start of B

encoder

decoder

`dist()`

\mathbf{d}

\mathbf{p}

$$\mathbf{c}^T \mathbf{d} \times g(\mathbf{p})$$