

Attention based models in End-to-End ASR

Exploration of Attention in ESPNET toolkit

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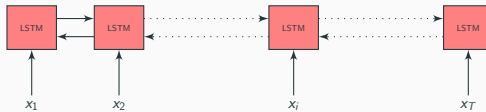
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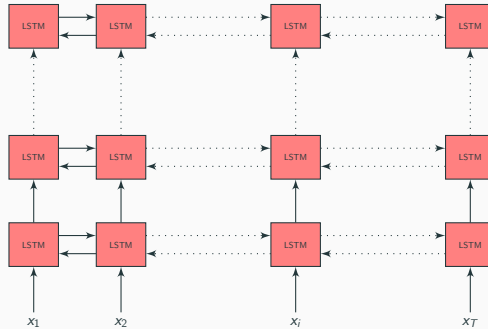
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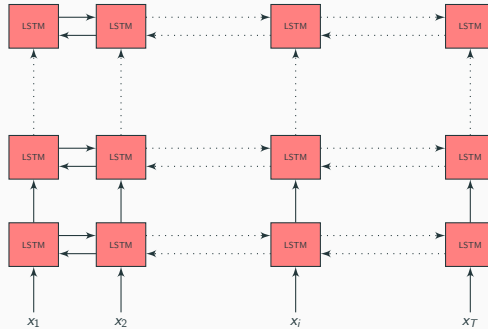
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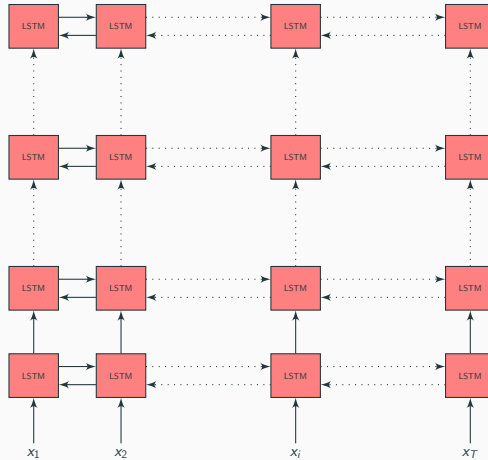
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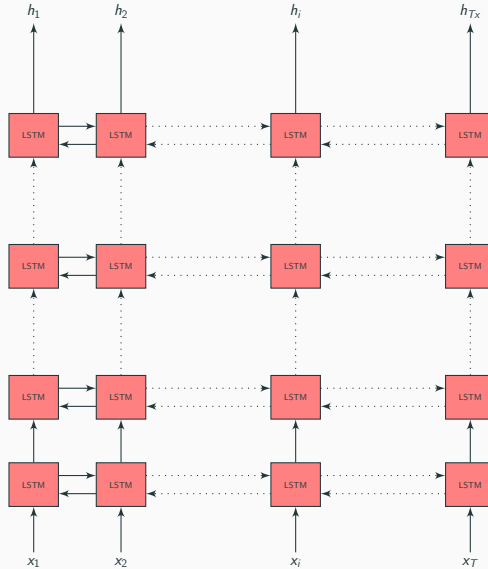
Introduction

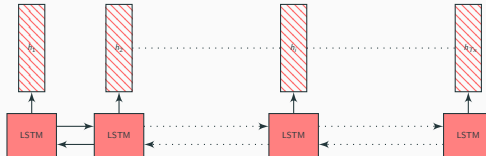


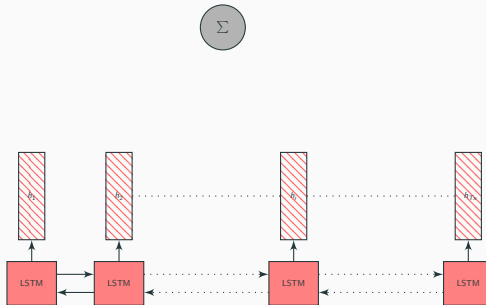


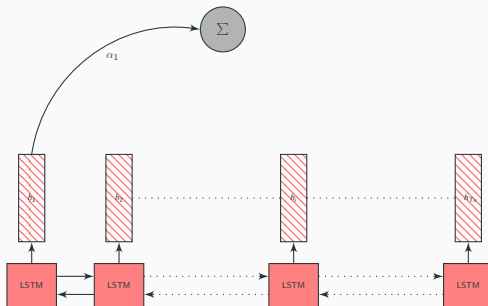


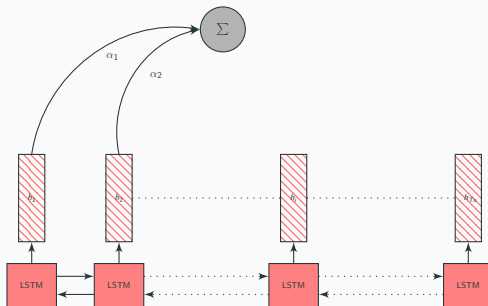


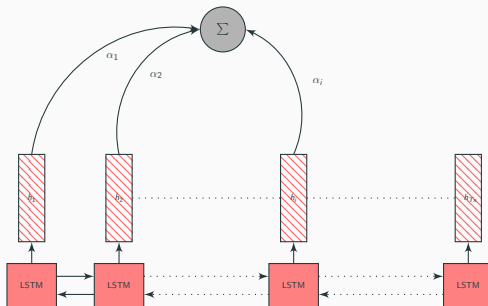


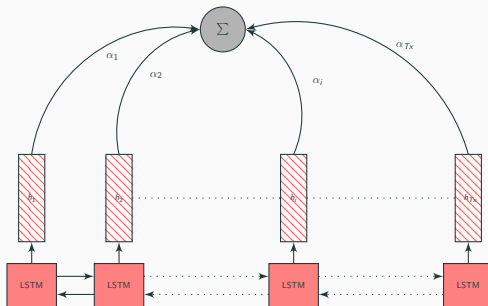


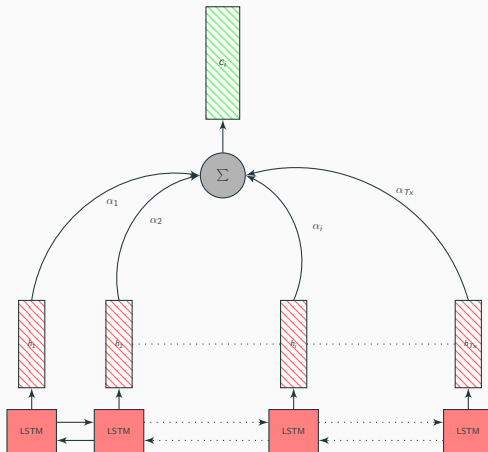




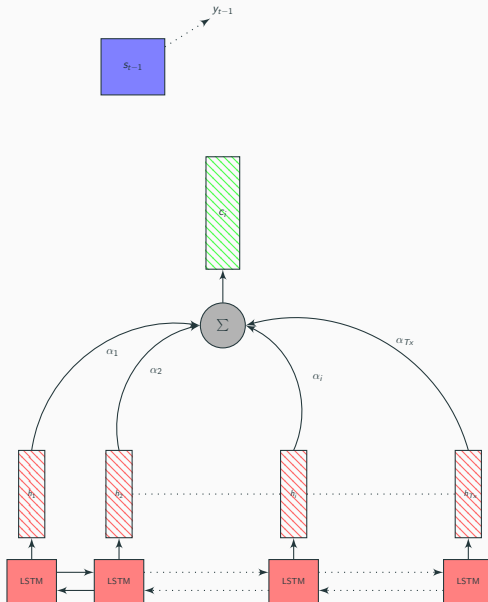




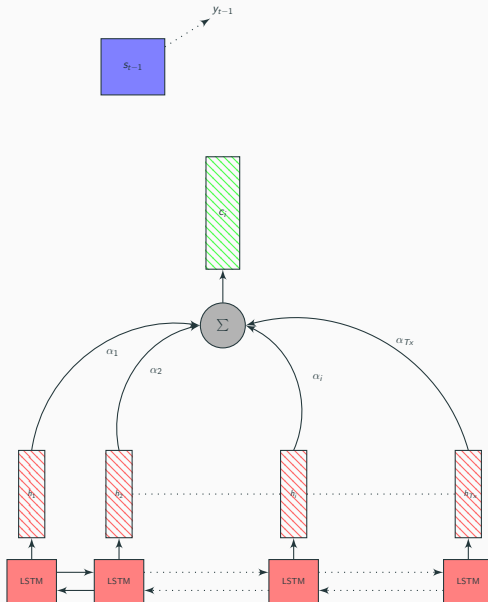




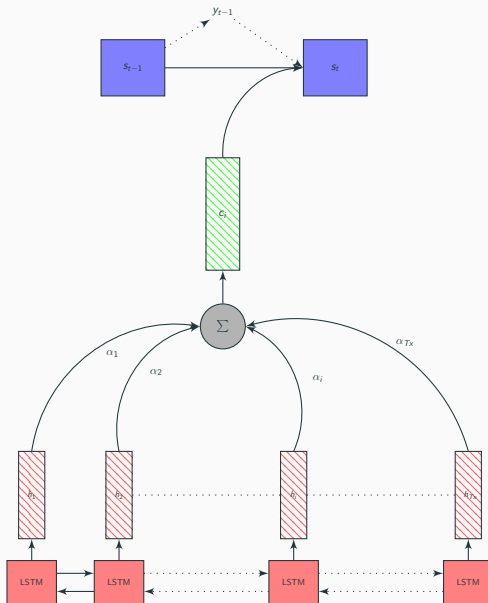
Introduction to Attention

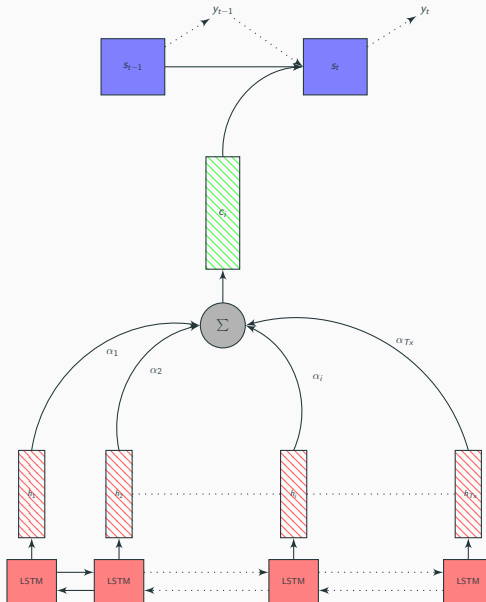


Introduction to Attention

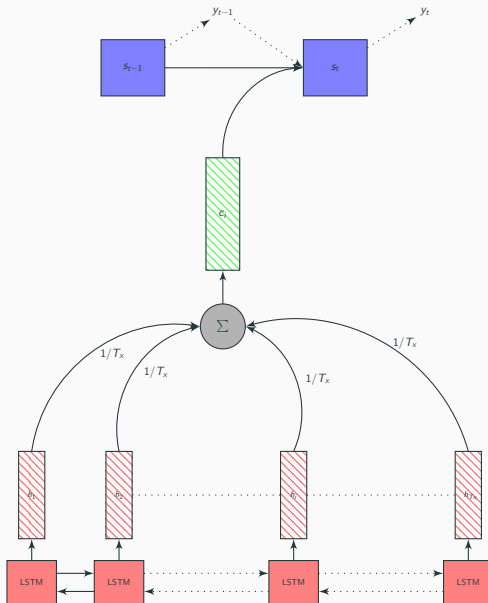


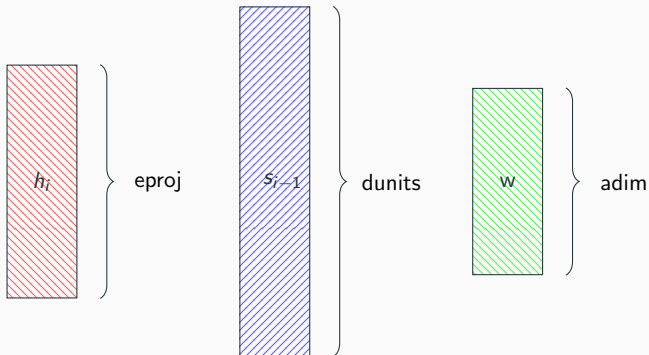
Introduction to Attention





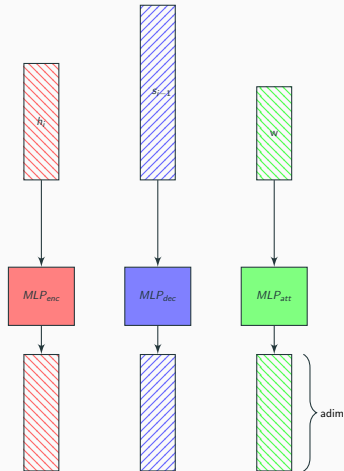
No Attention [Equal Attention?]





Mostly $eproj \neq dunits \neq adim$

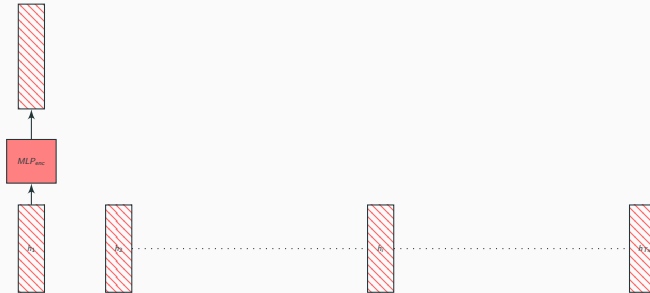
Matching the dimensions of representations



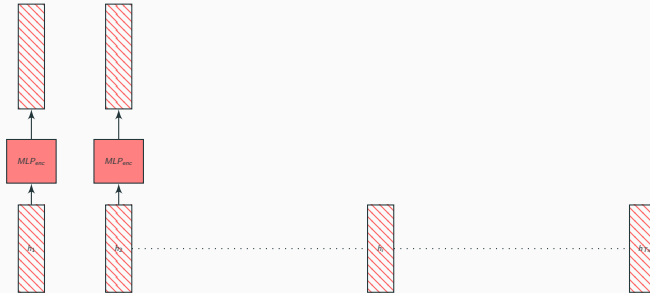
Dot product Attention



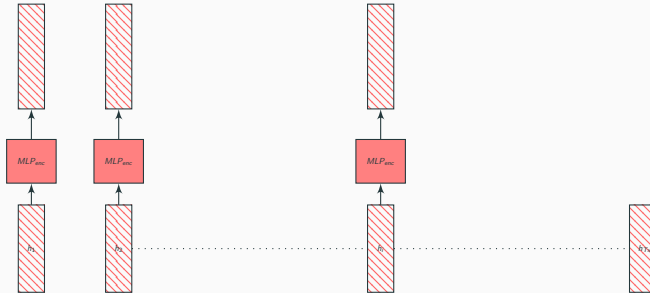
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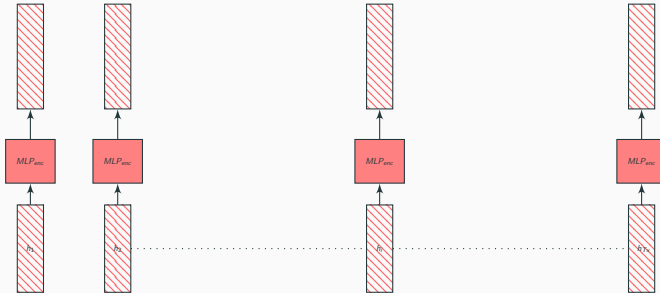
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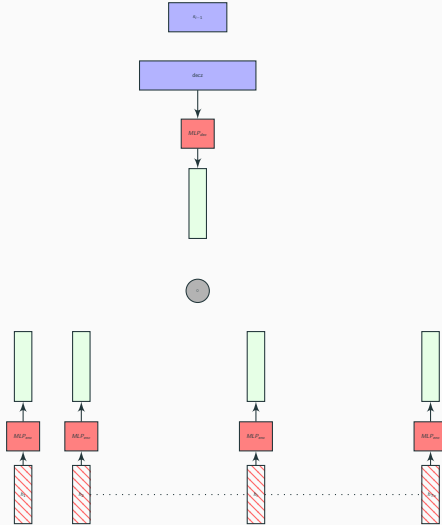
Dot product Attention



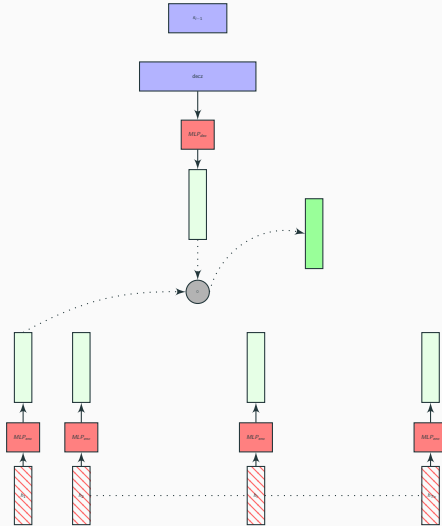
Dot product Attention



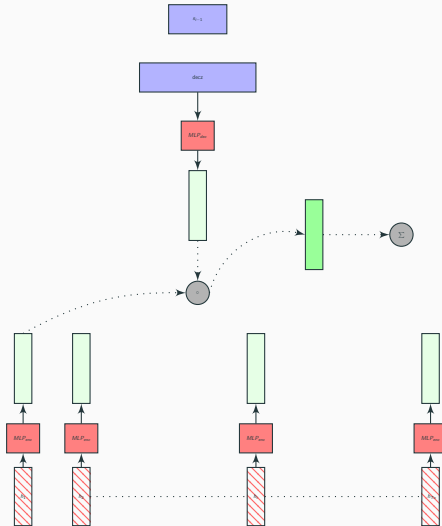
Dot product Attention



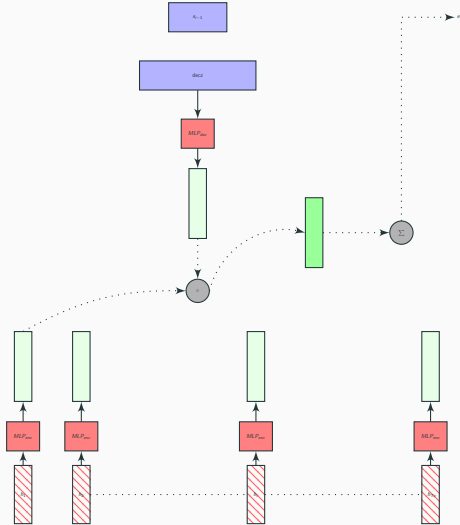
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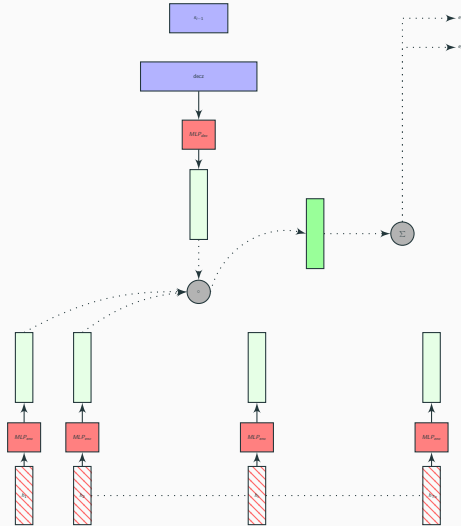
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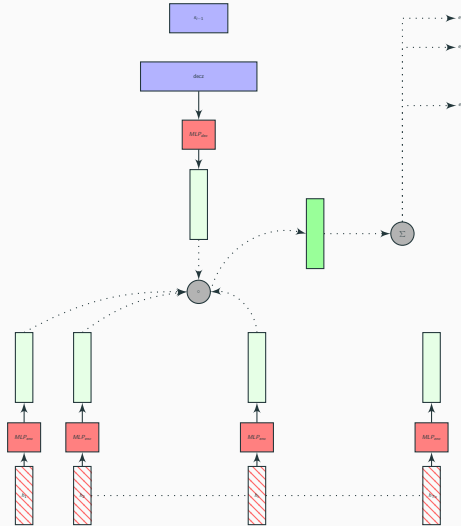
Dot product Attention



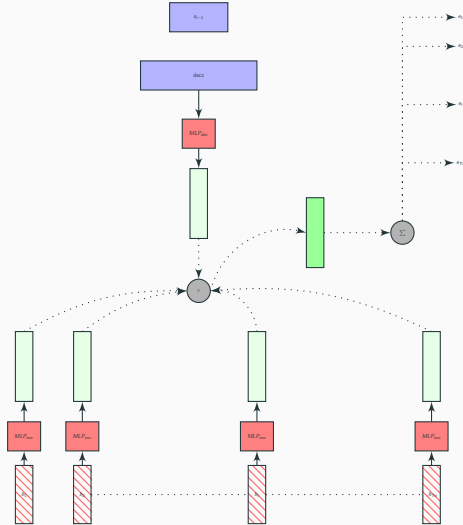
Dot product Attention



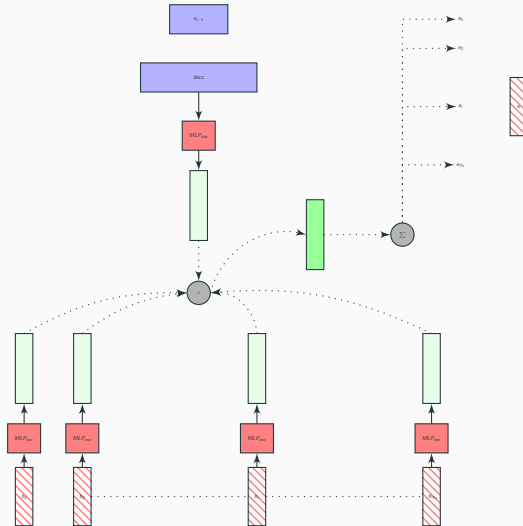
Dot product Attention



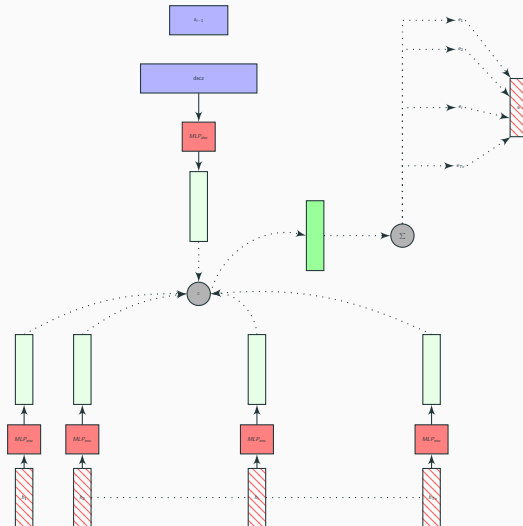
Dot product Attention



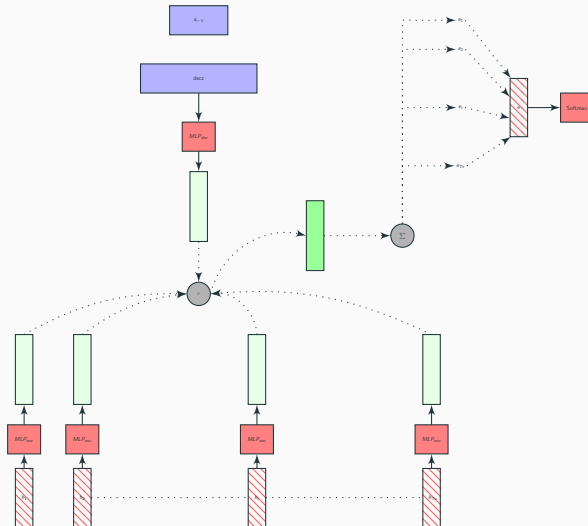
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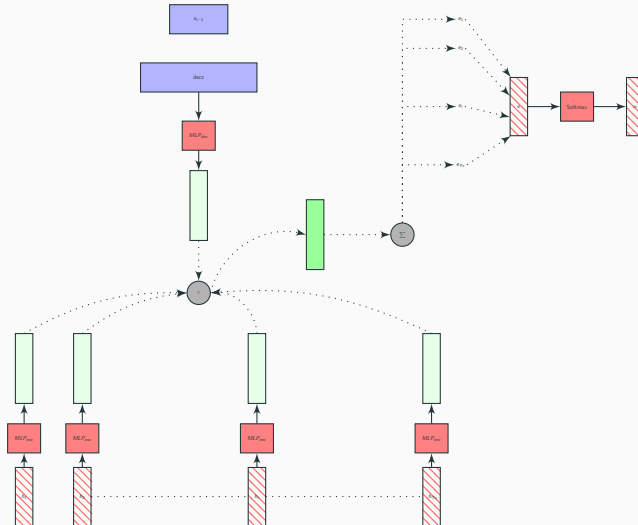
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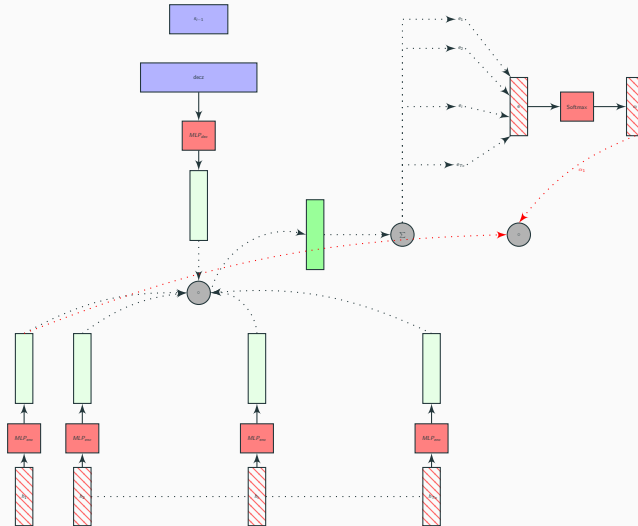
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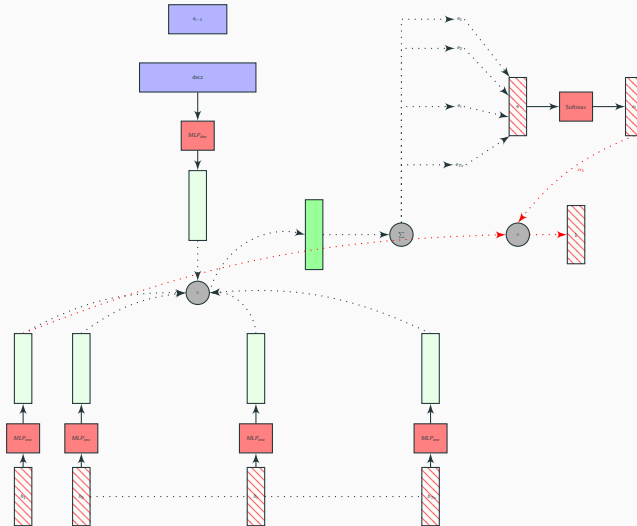
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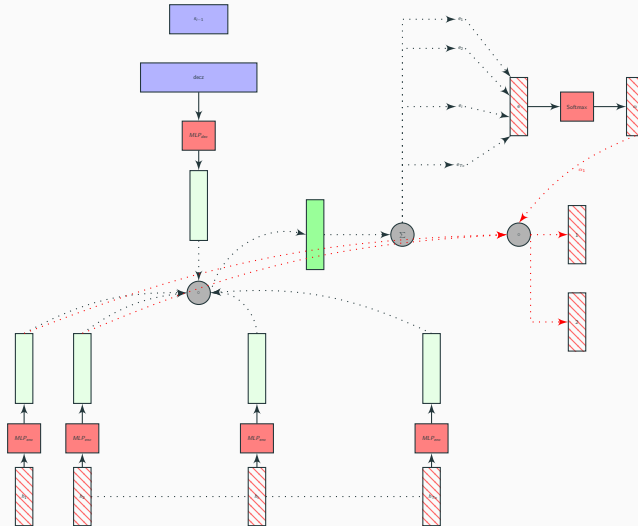
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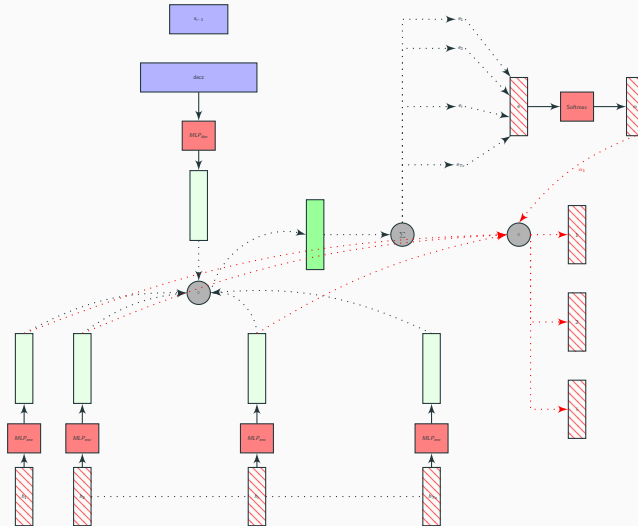
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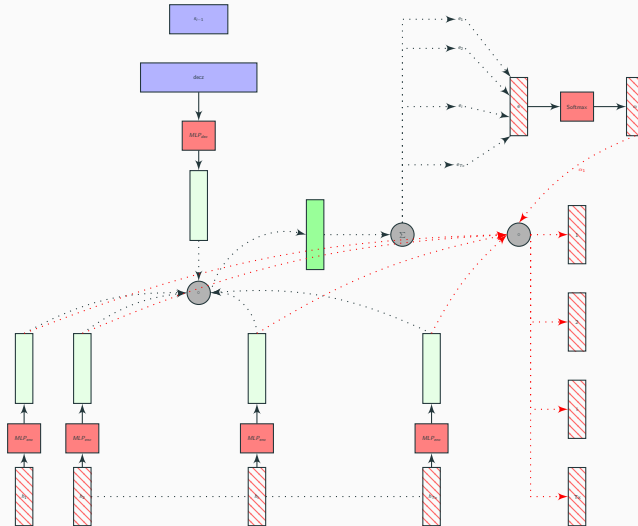
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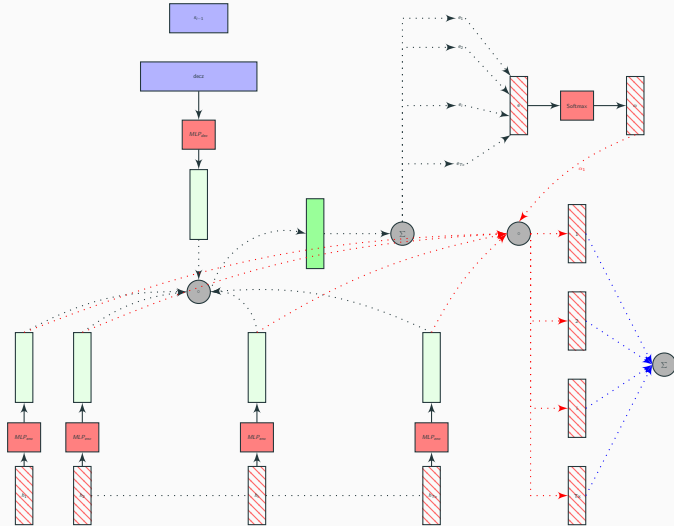
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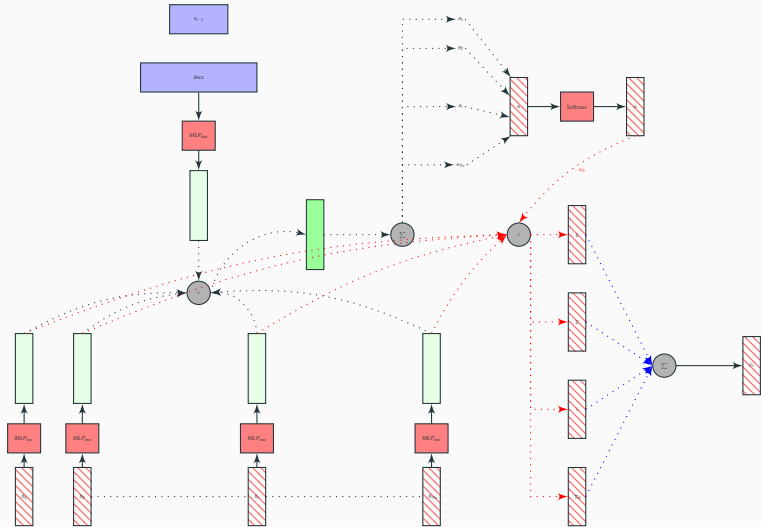
Dot product Attention



Dot product Attention



Dot product Attention



First

Second

Third
