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\begin{aligned} & \textbf{Input:} T_{e}^{efL}, mocapFrameData \\ & \textbf{Output:} wp_{obj}^{efL} \\ & \textbf{Initial require:} tobserve} = 10ms, t_{predict} = 1sec, i = 1 \\ & mocapStartandmocapFrameData(i)! = NaN \\ & (i\%t_{observe}) = 0 \\ & T_{e}^{efL} \leftarrow ent EffectorTask \\ & T_{M}^{efL} \leftarrow ent EffectorTask \\ & T_{M}^{efL} \leftarrow mocapFrameData.objectMarker((i-t_{observe})+1) \\ & j \leftarrow 1 \text{ to } to_{observe} \\ & T_{obj_{marker}}^{efL} \leftarrow mocapFrameData.objectMarker(i-t_{observe}) + j) \\ & T_{efL}^{efL} = T_{e}^{efL^{-1}} \times T_{obj_{marker}}^{obj_{marker}} \times T_{M}^{efL} \\ & j = 1 P_{obj_{marker}}^{obj_{marker}} \leftarrow T_{obj_{marker}}^{efL} \times T_{M}^{obj_{marker}} \times T_{M}^{efL} \\ & j = t_{observe}^{obj_{marker}} \leftarrow T_{obj_{marker}}^{efL} \times t_{ranslation}()(1) \\ & j = t_{observe}^{obj_{marker}} \leftarrow T_{obj_{marker}}^{efL} \times t_{ranslation}()(t_{observe}) \\ & \mathcal{C} \leftarrow \mathcal{F}_{c}(P_{0}^{obj_{marker}}, P_{obj_{marker}}^{obj_{marker}}, t_{ranslation}()) \\ & y_{efL}^{efL} \times T_{obj_{marker}}^{efL} \leftarrow T_{obj_{marker}}^{efL} \times t_{ranslation}()) \\ & y_{efL}^{efL} \times T_{obj_{marker}}^{efL} \leftarrow T_{obj_{marker}}^{efL} \times t_{ranslation}^{efL} \\ & y_{obj_{marker}}^{efL} \leftarrow T_{obj_{marker}}^{efL} \times t_{ranslation}^{efL} \\ & y_{obj_{marker}}^{efL} \leftarrow T_{obj_{marker}}^{efL} \times t_{ranslation}^{efL} \\ & y_{obj_{marker}}^{efL} \times t_{ranslation}^{efL} \\ & y_{obj_{marker}}^{efL} \leftarrow T_{obj_{marker}}^{obj_{marker}} \times t_{ranslation}^{efL} \\ & y_{obj_{marker}}^{efL} \times t_{ranslation}^{efL} \\ & y_{obj_{marker}}^{efL}
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