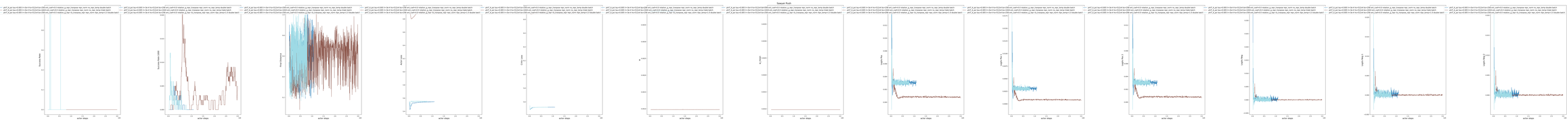

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps 1e6

0.0

0.2

0.4

0.6

0.8

1.0

Success Rate

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

0.000

0.005

0.010

0.015

0.020

Success Rate 1000

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

0.2

0.4

0.6

0.8

1.0

Final Distance

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

5.4

5.6

5.8

6.0

6.2

6.4

6.6

6.8

7.0

Actor Loss

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

5.6

5.8

6.0

6.2

6.4

6.6

6.8

7.0

Critic Loss

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

0.0010

0.0015

0.0020

0.0025

0.0030

0.0035

0.0040

w

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

0.0010

0.0015

0.0020

0.0025

0.0030

0.0035

0.0040

w_mean

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

0.000

0.002

0.004

0.006

0.008

0.010

0.012

0.014

Logits Pos

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

0.0000

0.0025

0.0050

0.0075

0.0100

0.0125

0.0150

0.0175

Logits Pos 1

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

0.000

0.002

0.004

0.006

0.008

0.010

0.012

0.014

Logits Pos 2

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

0.005

0.000

0.005

0.010

0.015

0.020

0.025

0.030

0.035

Logits Neg

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

0.005

0.000

0.005

0.010

0.015

0.020

Logits Neg 1

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

0.0 0.5 1.0 1.5 2.0 2.5 3.0

actor steps

1e6

0.000

0.005

0.010

0.015

0.020

Logits Neg 2

phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp double batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=1024 ent_coef=0.0 rotation_g_repr_tranpose repr_norm no_repr_temp triple batch phiT_A_psi tau=0.005 lr=3e-4 hs=512x4 bs=256 ent_coef=0.0 rotation_g_repr no_tranpose_repr repr_norm repr_temp=1.0 double batch

Sawyer Push