https://github.com/multicore-it/n

A2C 알고릭돌ith A2C 알고릭돌ith A2C 알고릭돌ithub.com/multi

3. 결과분석

https://github.com/multicore-lt/n

로그분석

```
担上人。mmulticore-itlr/model_actor(m)
def build model actor(self):
   input states = Input(shape=(self.state size), name='input states')
                                                                                                         Actor 모델 로그
   input action matrixs = Input(shape=(self.action size), name='input action matrixs')
   input advantages = Input(shape=(self.value size), name='input advantages')
                                                                                 ulticore-it/rl
   x = (input states)
   x = Dense(self.node num, activation='relu')(x)
   out actions = Dense(self.action size, activation='softmax', name='output',
                        kernel initializer='he uniform')(x)
   model = self.MyModel(inputs=[input states, input action matrixs,
                         input_advantages], outputs=out_actions)
   model.compile(optimizer=Adam(lr=self.learning rate))
                                                                 Model: "my model 3"
   model.summary()
                                                                                            Output Shape
                                                                 Layer (type)
                                                                                                              Param #
                                                                                                                         Connected to
   return model
                                                                 input states (InputLayer)
                                                                                             [(None, 4)]
                                                                                                               0
                                    1501
                                                                 dense 6(Dense)
                                                                                             (None, 12)
                                                                                                                         input states[0][0]
                                                                                                               60
                                                                 input action matrixs (InputLayer)
                                                                                             [(None, 2)]
                                                                                                               0
                                                                 input advantages (InputLayer)
                                                                                            [(None, 1)]
                                                                                                              0
                                                                 output (Dense)
                                                                                                              26
                                                                                                                         dense 6[0][0]
                                                                                             (None, 2)
                                                                 Total params: 86
                                                                 Trainable params: 86
```

Non-trainable params: 0

별과분석 commulticore-it/r/

Model: "my_model_7"

Non-trainable params: 0

```
def build model critic(self):
   input states = Input(shape=(self.state size), name='input states')
   x = (input states)
   x = Dense(self.node num, activation='relu')(x)
   out values = Dense(self.value size, activation='linear', name='output')(x)
   model = tf.keras.models.Model(inputs=[input states], outputs=[out values])
   model.compile(optimizer=Adam(lr=self.learning rate),
                loss='mean squared error'
   model.summary()
   return model
```

Critic 모델 로그

'Iticore-it|rl

ı	Layer (type)	Output Shape	Param #	Connected to
1	input_states (InputLayer)	[(None, 1, 4)]	0	
l	dense_7 (Dense)	(None, 1, 12)	60	input_states[0][0
l	input_action_matrixs (InputLaye	[(None, 1, 2)]	0	
l	input_rewards (InputLayer)	[(None, 1, 1)]	0	
l	output (Dense)	(None, 1, 2)	26	dense_7[0][0]
l	Total params: 86 Trainable params: 86		=========	





결과분석

*****end a2clearing

omlmulticore-Itlri

*****end learing

A2C episode:270, moving_avg:51.3, rewards_avg:32.57933579335793 episode:280, moving avg:58.0, rewards avg:33.46975088967971 episode:290, moving_avg:88.0, rewards_avg:36.31958762886598 episode:300, moving avg:129.7, rewards avg:39.79734219269103 episode:310, moving avg:205.85, rewards avg:47.157556270096464 episode:320, moving avg:278.5, rewards avg:54.610591900311526 episode:330, moving avg:222.55, rewards avg:57.69788519637462 episode:340, moving avg:197.05, rewards avg:62.91202346041056 episode:350, moving avg:243.1, rewards avg:68.21367521367522 episode:360, moving avg:222.85, rewards avg:71.7202216066482 episode:370, moving avg:176.7, rewards avg:74.00808625336927 episode:380, moving avg:207.6, rewards avg:78.8005249343832 episode:390, moving avg:233.1, rewards avg:82.09462915601023 episode:400, moving avg:164.15, rewards avg:83.0074812967581 episode:410, moving avg:75.3, rewards avg:81.71532846715328 episode:420, moving avg:27.2, rewards avg:80.30878859857482 episode:430, moving avg:29.15, rewards avg:79.22969837587007 episode:440, moving avg:164.45, rewards avg:84.08843537414965 episode:450, moving avg:397.05, rewards avg:93.31042128603104 episode:460, moving avg:500.0, rewards avg:102.13232104121475 episode:470, moving avg:381.8, rewards avg:105.54352441613588 episode:480, moving avg:192.9, rewards avg:105.86902286902287 episode:490, moving avg:131.4, rewards avg:106.55600814663951 INFO:tensorflow:Assets written to:./model/a2c\assets

episode:280, moving avg:99.5, rewards avg:69.444839857651 episode:290, moving avg:156.4, rewards avg:74.46048109965636 episode:300, moving avg:179.75, rewards avg:76.70764119601328 episode:310, moving avg:128.95, rewards avg:77.90032154340837 episode:320, moving avg:112.25, rewards avg:78.85981308411215 episode:330, moving avg:112.85, rewards avg:79.95166163141994 episode:340, moving_avg:120.75, rewards_avg:81.25806451612904 episode:350, moving avg:171.9, rewards avg:85.13390313390313 episode:360, moving_avg:199.8, rewards_avg:87.77008310249307 episode:370, moving avg:180.25, rewards avg:90.20754716981132 episode:380, moving avg:161.25, rewards avg:91.5748031496063 episode:390, moving avg:127.15, rewards avg:92.0460358056266 episode:400, moving avg:115.75, rewards avg:92.73067331670823 episode:410, moving avg:131.75, rewards avg:93.9294403892944 episode:420, moving avg:177.2, rewards avg:96.6959619952494 episode:430, moving avg:188.3, rewards avg:98.26218097447796 episode:440, moving avg:129.9, rewards avg:98.15646258503402 episode:450, moving avg:119.9, rewards avg:99.17738359201773 episode:460, moving avg:161.8, rewards avg:100.87418655097613 episode:470, moving avg:149.95, rewards avg:101.29087048832272 episode:480, moving avg:139.4, rewards avg:102.43451143451144

episode:490, moving avg:207.3, rewards avg:105.56822810590631

INFO:tensorflow:Assets written to:./model/reinforce\assets

episode:270, moving_avg:88.75, rewards_avg:68.48708487084

