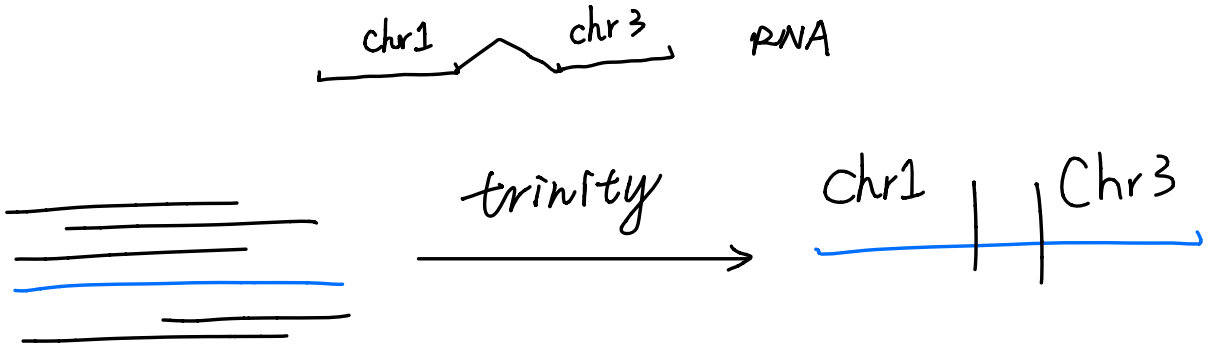
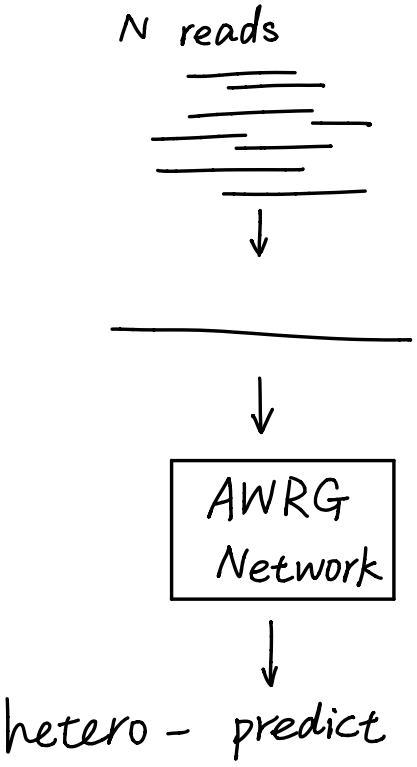
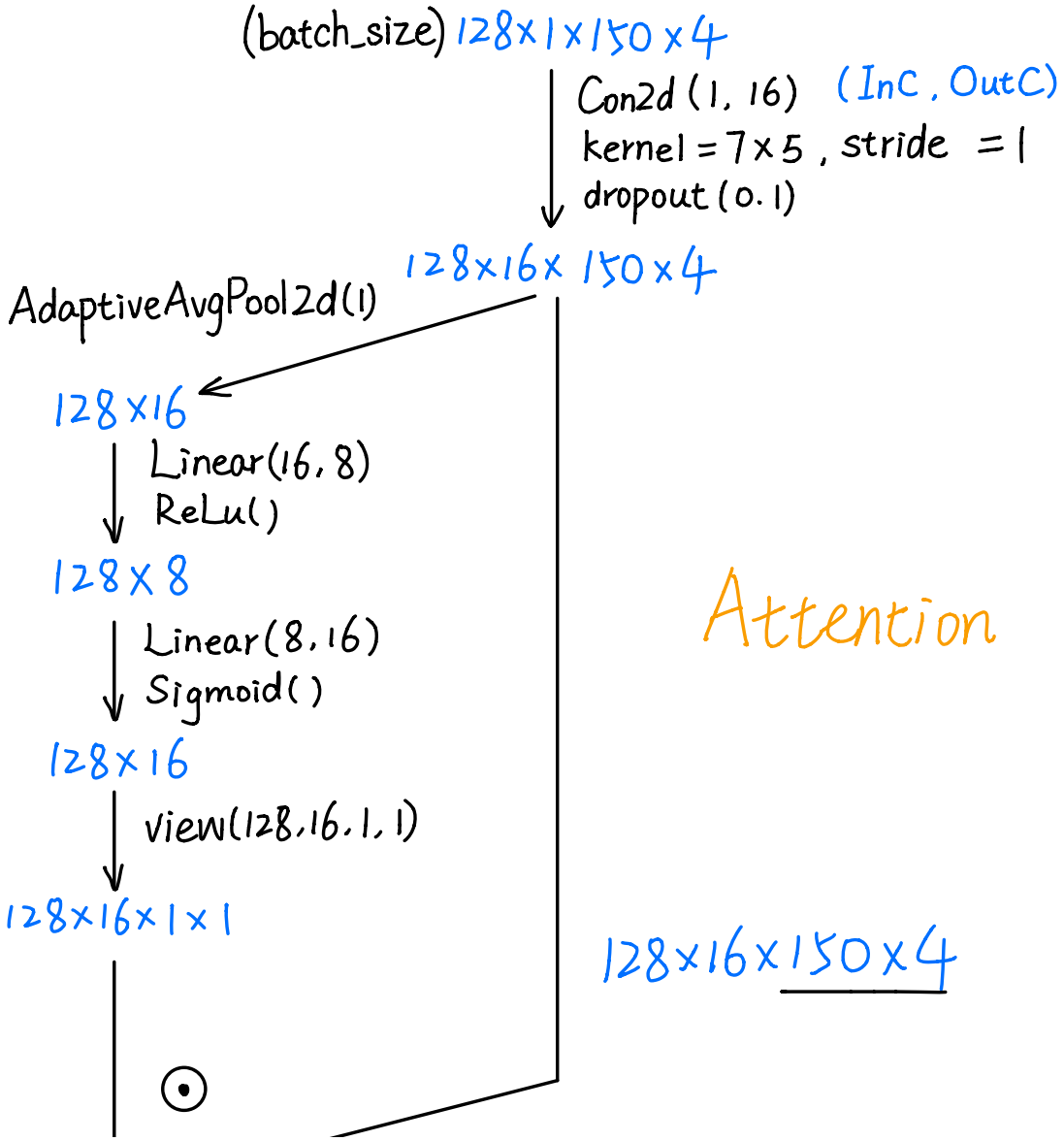
RNA-seq

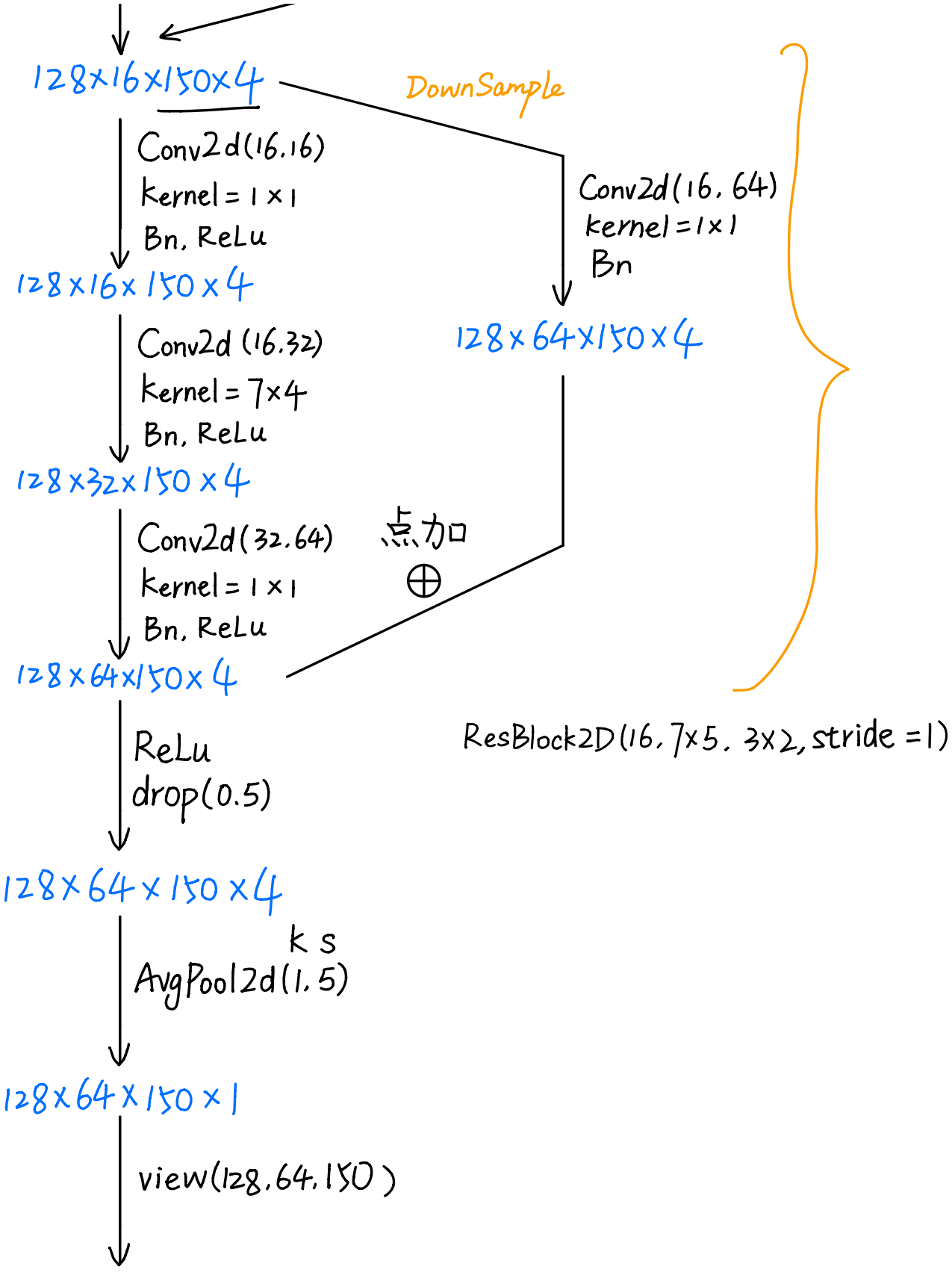

chr1
chr3
RNA
trinity
Chr1
Chr3

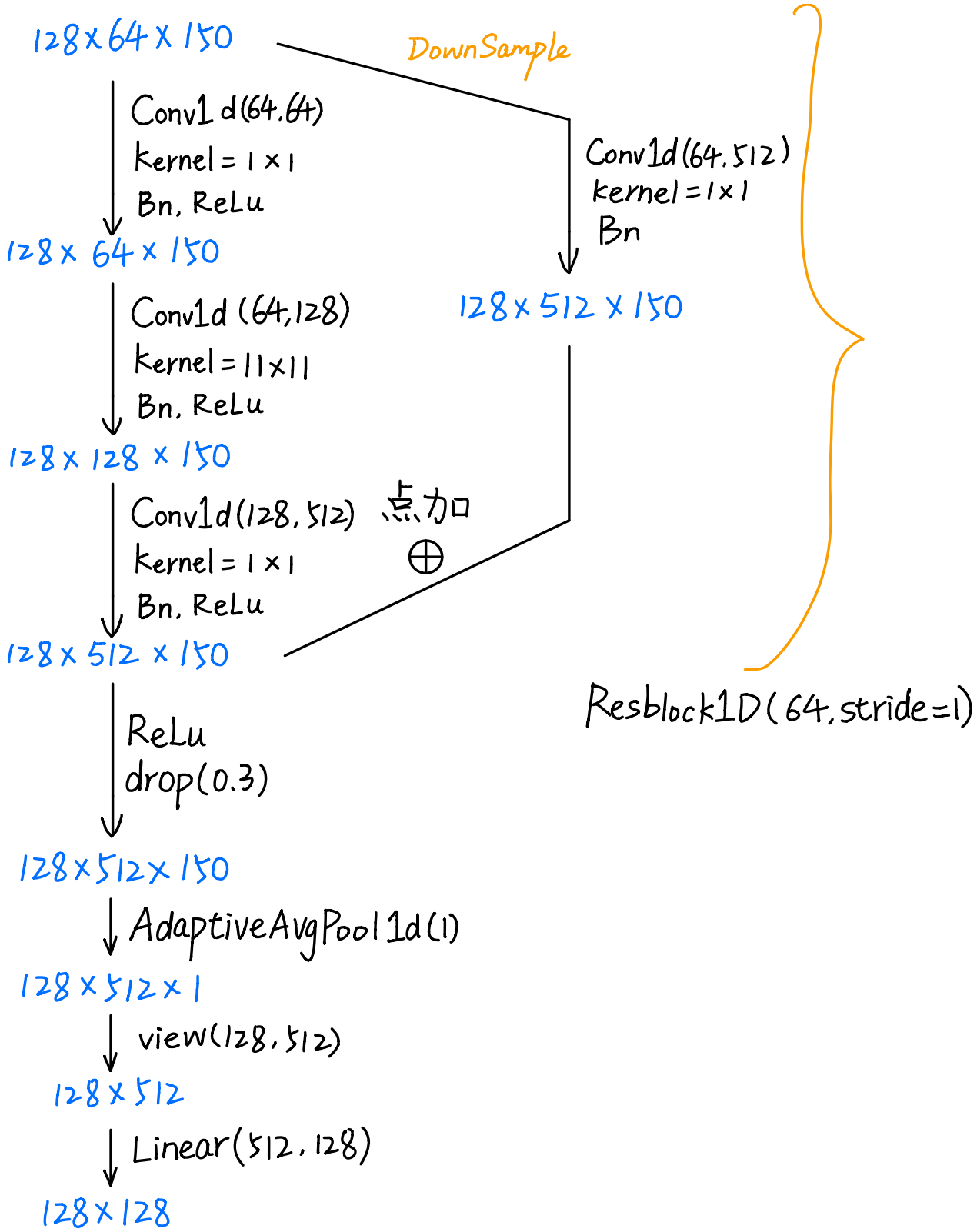

N reads
AWRG
Network
hetero - predict

Complex method.

AUCG ×150 —onehot→ 4×150 (0.1)




128×16×150×4
DownSample
Conv2d(16,16)
kernel=1×1
Bn, ReLu
128×16×150×4
Conv2d(16,64)
kernel=1×1
Bn
128×64×150×4
Conv2d(16,32)
kernel=7×4
Bn, ReLu
128×32×150×4
Conv2d(32,64)
kernel=1×1
Bn, ReLu
点加
⊕
128×64×150×4
ResBlock2D(16, 7×5, 3×2, stride=1)
ReLu
drop(0.5)
128×64×150×4
k s
AvgPool2d(1,5)
128×64×150×1
view(128,64,150)


128 x 64 x 150
DownSample
Conv1d(64,64)
kernel = 1 x 1
Bn, ReLu
128 x 64 x 150
Conv1d(64,512)
kernel = 1 x 1
Bn
128 x 512 x 150
Conv1d(64,128)
kernel = 11 x 11
Bn, ReLu
128 x 128 x 150
Conv1d(128,512)
kernel = 1 x 1
Bn, ReLu
点加
⊕
128 x 512 x 150
ReLu
drop(0.3)
128 x 512 x 150
AdaptiveAvgPool1d(1)
128 x 512 x 1
view(128,512)
128 x 512
Linear(512,128)
128 x 128
Resblock1D(64, stride=1)

Language

Sample Method

GPC_SE

RNA