ADAGRAD

36ps .

- 1) (1,47), n=0.1, epods=1, mel, (=-1, E=10-8)
- 2) 140 =1
- 3) Sample=1
- $\begin{array}{lll}
 4) & 9m^{2} [y_{1} w_{MY} C] & \gamma_{1} \\
 & = -[3.4 (1 \times 0.2) + 1] \times 0.2 \\
 & = -[3.4 0.2 + 1] \times 0.2 = [4.2] \times 0.2 = 0.84 \\
 & = 9c^{2} [4.2]
 \end{array}$
- 5) Gru= Grut (qu) = 0+(0.84) = 0.7056 Gre= Gre+ (qc) = 0+(4.2) = 17.64
- 6) Ame -0.1 x (-0.84) = 0.09999 \(\sigma_0.7056+10^8\)

$$AC=-0.1$$

 $\sqrt{17.64+10^8}$ $\times (-4.2) = 0.0999$

- 7) we withoughto, 9999=1.9999 CZ LFAC=-1+0,9999=-0,001
- 8) sample = Sample +1=1+1=2

$$ACE = -0.1$$
 $\times (-1.8011) = 0.03941$ $\sqrt{20.8839+10^{-8}}$

- (2 0.001 + 0.3941 = 0.393)
- 14) sample = Sample +1=2+1=372 true goto step 15
- 15) pter 2 Fter+1 = 1+1=2
 - 16) Ptil De pochs = 272 = false golo wertstep

- 18) $9w^2 [3.4 (2.0650 \times 0.2) 0.3931] \times 0.2$ $= -[2.5939] \times 0.2 = -0.5787$ 9c = -2.5939
- 19) Gm=Gm+(gm)2=1.2246+0.2690=1.4936 Gc=Gc+(gc)2=20,8839+6.7283=27.6122
- 20) Ame 0.1 $\times (-0.5187) = 0.01789$ $\sqrt{1.4936+10^{-8}}$
 - $\Delta C^{2} = -0.1 \times (-2.5939) = 0.04926$ $\sqrt{27.612240^{8}}$
- 21) memfam=2-0650+0.01789=2-08289 C=C+AC=0.3931+0.04936=0.44246
 - 22) sample = Sample +1 = 1+1 = 2 > 2 => false
 goto next step
 - 23) $q_{w} = -[3.8 (2.08289 \times 0.4) 0.44246) \times 0.4$ = $-[2.5243] \times 0.4 = -1.00972$ $q_{c} = -2.5243$
 - 24) Grue Grut (9m) = 1.4936+ (-1.00972) = 2.5131 Gre z Gret (9c) = 27.6122 + (-2.5243) = 33.9842

- V2:5191+10-8 x (-1.00972) = 0.06369 $11^{2} - 0.1 \times (-2.5243) = 0.0433$
- 26) mem+ Ame 208289+0.06369 = 2.14658 C=C+AC=0.44246+0.0433=0.48576
- (77) Sample = Sample+1=2+1=37 no of samples geto nextstep
- 1ter 29ter+122+123>006chs goto nextstep
 - 29) Pant (m,1)
- 30) Calculate Mean Square Eller

inse=1 & [4-4p]=+ [(3.4-(2.14658x0.2)

- 0,48576)2+(3,8-(2,14658×0,4)-0,4576)2

use = 3.05121