#ifdef CNN\_TEST

#include <stdio.h>

#endif

#include <math.h>

static float w\_3 [3][3][1][4] = { -3.2723394e-01,1.0788441e-05,-4.99039e-02,-3.118909e-01,2.038778e-01,-1.5735483e-01,-4.722619e-02,-2.2577505e-01,1.0321954e-01,3.3372205e-01,6.1962157e-02,-8.184254e-03,2.680868e-01,-1.6083306e-01,1.7476988e-01,2.4043661e-01,2.7096242e-01,-7.465106e-02,2.4007899e-01,2.3401642e-01,2.1824533e-01,2.1570802e-01,-2.009243e-01,1.3094544e-03,2.671997e-01,-2.9589996e-01,1.0895616e-01,-1.551231e-01,1.7293447e-01,-2.6455134e-02,-2.4320497e-01,2.6448435e-01,2.1575928e-01,-2.178417e-01,-3.409294e-01,-4.8899353e-02 };

static float b\_3 [4] = { 0.e+00,0.e+00,0.e+00,0.e+00 };

static float w\_2 [3][3][4][8] = { -1.5937972e-01,3.1551525e-02,1.5215068e-01,-1.5007465e-01,3.0955687e-02,-1.8447338e-01,7.931323e-02,4.2705387e-03,4.4581935e-02,1.805441e-02,1.8083982e-01,7.434778e-02,1.1085047e-01,-3.0257553e-02,-1.1347707e-01,2.1959127e-01,2.0344032e-01,1.2782885e-01,2.1969534e-01,-1.8672745e-01,1.2359114e-01,1.7711572e-01,-7.828182e-02,2.0858847e-01,7.166891e-02,2.2293834e-01,1.6771029e-01,-5.201876e-03,-4.779537e-02,-7.7803925e-02,3.4860894e-02,-1.9618352e-01,1.17534086e-01,2.0202012e-01,-1.07154146e-01,2.3154168e-01,-2.5178805e-02,-2.0122483e-02,-2.9106215e-02,2.1493797e-01,9.267256e-03,-6.180565e-02,-3.9127782e-02,-1.4439173e-01,2.2917311e-01,-1.2814113e-01,6.481393e-02,3.0929e-03,1.9461836e-01,-1.4678302e-01,-1.0950521e-01,1.7998059e-01,-2.3405579e-01,-2.1905228e-02,-2.7076647e-02,-1.4763282e-01,-8.532211e-03,2.2745709e-01,-1.4462945e-01,-1.7847702e-01,-2.1732995e-01,-2.163555e-01,8.215983e-02,4.4883147e-02,-2.7900934e-02,1.5186474e-02,1.6293173e-01,-2.1008198e-01,-6.1794534e-02,-2.0369717e-01,3.226702e-02,6.692116e-02,-8.10236e-02,-6.531817e-02,-1.6983466e-01,-8.123334e-02,-9.1444835e-02,-6.0087636e-02,1.7222033e-01,-7.294923e-02,2.1116312e-01,1.0859193e-01,7.6124296e-02,1.2856592e-01,1.1389528e-01,1.8630673e-01,2.2651182e-01,8.382216e-03,1.6148493e-02,-6.6375166e-02,-1.4505658e-01,2.1619986e-01,-9.4672725e-02,-2.2271664e-01,2.4543509e-02,1.3353549e-01,8.121635e-02,-7.199553e-02,1.4067335e-01,1.0511379e-01,-4.5393616e-02,9.163912e-02,1.3796337e-01,1.4236875e-01,-2.1936822e-01,7.728501e-02,6.927492e-02,4.204093e-02,4.1196123e-02,-1.5240788e-01,5.4001287e-02,5.468099e-02,1.8848196e-02,-2.3959354e-02,5.7638183e-02,-1.8467513e-01,2.3055568e-02,-1.5497874e-01,-1.6833362e-01,8.0139086e-02,-2.743052e-02,2.3397417e-01,2.58068e-02,1.2349431e-01,-2.1368767e-01,1.5675448e-01,2.7071878e-02,1.9406055e-01,3.8148507e-02,-2.3263639e-01,-5.302006e-02,8.139698e-02,1.6972406e-01,-6.247866e-02,3.89062e-02,1.6505942e-02,-3.9972126e-02,-1.8131922e-01,-2.1595904e-01,-1.16278715e-01,-1.9716144e-01,-2.0354003e-02,-7.304892e-03,-2.0499149e-01,-2.3980439e-02,1.0170625e-01,1.012388e-01,-6.062959e-02,2.1411161e-01,2.1989994e-01,2.061844e-01,-1.7011519e-01,-7.518116e-02,5.3463712e-02,1.19842604e-01,3.3862457e-02,-2.3829386e-02,1.2802707e-01,2.3195828e-01,2.0666988e-01,-1.2202109e-01,-1.2637918e-01,-2.27506e-01,-1.046962e-01,-1.903518e-01,-4.9501523e-02,7.595457e-02,4.2136803e-02,-1.5239957e-01,-1.001313e-01,-1.5452676e-01,1.5524359e-01,1.7476e-01,-6.2559575e-02,4.346092e-02,2.3251708e-01,-2.2027579e-01,1.24662295e-01,-6.771037e-02,-1.5781112e-01,1.5313311e-01,1.0078846e-01,-1.04252696e-01,-8.393288e-03,1.19287565e-01,-1.900506e-01,1.9002138e-01,1.3811775e-01,-1.0693532e-01,-1.3530988e-01,-1.6839127e-01,6.310119e-02,-1.4084673e-01,6.307371e-02,1.642067e-01,-1.9549102e-01,1.1801039e-01,1.0319494e-01,-1.1655464e-01,1.7422542e-02,-8.757992e-02,-1.7150311e-01,-1.6842106e-01,1.0464449e-01,2.1811308e-01,1.4178969e-01,-7.60854e-02,-1.2713772e-01,-1.6920948e-01,-6.055519e-02,-1.9084065e-01,1.5835525e-01,-2.1542108e-01,-1.3387525e-01,1.5689264e-01,-2.0896818e-01,2.888982e-02,-4.458496e-02,1.1998476e-01,-3.3673078e-02,1.6851996e-01,1.2681295e-01,1.6327797e-01,2.231334e-01,-1.6547573e-01,-2.4264172e-02,-1.7499888e-01,1.770161e-02,8.6976215e-02,-1.7423838e-02,-7.47163e-02,-2.0009688e-01,-1.3393167e-01,-9.338944e-02,-1.8643226e-01,-8.49545e-02,1.879959e-01,-2.053921e-01,1.6380064e-01,-1.2933221e-01,1.8274172e-01,1.0596876e-01,1.7839928e-01,-2.346768e-01,-6.124465e-02,-1.7031574e-01,1.0358684e-01,4.9418375e-02,2.1785785e-01,2.1011384e-01,2.0327498e-01,-7.157828e-02,-8.3642215e-02,-8.348516e-02,1.4157683e-02,-9.33065e-02,6.578337e-02,-1.1199064e-01,-1.6541386e-01,-2.8074235e-02,6.932612e-02,1.1772041e-01,4.7389865e-03,-2.5369704e-02,-2.1705745e-01,-7.288264e-02,3.6539063e-02,-1.5516025e-01,1.3599958e-01,-1.0501696e-01,8.394797e-02,2.123528e-01,2.9947296e-02,4.4922486e-02,2.2851245e-01,-1.6283098e-01,-7.601291e-02,-2.1020702e-01,2.1074863e-01,2.2475548e-01,-2.7225286e-02,-1.0958259e-01,9.0986446e-02,1.8349378e-01,-4.6883523e-03,8.3602384e-02,-4.4993e-02,7.511233e-02 };

static float b\_2 [8] = { -3.2700896e-02,-9.381555e-03,2.7350139e-02,-6.790947e-03,3.768206e-02,3.6491442e-02,-3.2367595e-03,-3.416618e-02 };

static float w\_1 [3][3][8][16] = { 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};

static float b\_1 [16] = { -2.93684e-03,-1.8444836e-02,-2.5610149e-02,-4.6852827e-02,1.93117e-02,-3.1033969e-02,-2.2129083e-02,1.5165322e-03,-3.1948574e-03,-1.3827253e-02,-2.5654722e-02,3.1734657e-02,-4.5010436e-02,-1.5485454e-02,-4.0909626e-02,-9.574436e-03 };

static float w\_0 [2][2][16][2] = { 1.0806328e-01,-2.2193557e-01,-1.8615156e-02,-2.7396828e-02,-1.1228071e-01,6.286007e-02,2.4024248e-01,-2.5999567e-01,1.224072e-01,2.7914655e-01,-5.0518066e-02,2.7445972e-01,2.6630533e-01,2.8543222e-01,-2.1733528e-01,-2.3892687e-01,-2.548586e-01,2.867257e-01,-2.630847e-01,4.1749775e-02,-6.513743e-02,2.8747666e-01,1.5167183e-01,-1.3369109e-01,1.670753e-01,-9.022708e-02,-2.2891937e-01,-6.660259e-02,-2.3742166e-01,-1.7595181e-01,2.1155477e-03,-2.7925423e-01,1.5475169e-01,1.4896676e-01,-2.2364148e-01,2.4324256e-01,1.6679472e-01,2.656421e-01,2.5601256e-01,2.8816432e-01,1.8936437e-01,-1.6158585e-01,-1.838887e-01,2.5900418e-01,-1.13567606e-01,5.1267505e-02,1.7917484e-01,1.7590892e-01,-2.3022747e-01,-1.4247982e-01,7.347435e-02,2.7147043e-01,2.4142206e-01,3.2693446e-03,-2.1398196e-01,-2.3200496e-01,-2.3284738e-01,2.8064567e-01,-2.5322008e-01,6.979224e-02,1.8114284e-01,-1.1068912e-01,1.0855374e-01,6.271985e-02,-1.17703184e-01,-2.4994522e-01,2.3880774e-01,-9.270604e-02,1.13909036e-01,-1.0250355e-01,1.3135225e-02,1.5922219e-02,4.6375394e-03,-5.9687063e-02,-1.9633785e-01,-2.2475412e-01,5.7438195e-02,-7.5428635e-02,-2.5253698e-01,1.382339e-01,1.2143272e-01,1.6783583e-01,2.715276e-01,4.0599406e-02,7.564461e-02,2.4187511e-01,1.3235629e-02,-1.9756177e-01,-7.206169e-02,-1.5357952e-01,-7.564984e-02,1.0081527e-01,-1.2105775e-01,-4.2614907e-02,1.6696692e-01,-8.138108e-02,1.440284e-01,5.9865743e-02,-9.546638e-03,-6.1368346e-03,1.6330883e-01,4.3907017e-02,2.1266359e-01,3.711623e-02,1.9624007e-01,-7.115711e-02,8.399466e-02,1.02106035e-02,-1.4819159e-01,-2.0172417e-02,2.4678087e-01,4.7224283e-02,4.0326655e-02,6.876418e-02,-9.912354e-02,1.8406254e-01,-1.0788888e-01,9.5618516e-02,3.0839205e-02,7.693213e-02,1.4800075e-01,3.1562746e-03,-2.601912e-01,2.1105859e-01,1.7606795e-02,9.66236e-03,8.054766e-02,1.473239e-01 };

static float b\_0 [2] = { 0.e+00,0.e+00 };

void cnn(float x\_0[36][18][1], float \*x\_13)

{

static float x\_1 [38][20][1] = { 0 };

static float x\_2 [36][18][4] = { 0 };

static float x\_3 [36][18][4] = { 0 };

static float x\_4 [20][11][4] = { 0 };

static float x\_5 [18][9][8] = { 0 };

static float x\_6 [18][9][8] = { 0 };

static float x\_7 [11][6][8] = { 0 };

static float x\_8 [9][4][16] = { 0 };

static float x\_9 [9][4][16] = { 0 };

static float x\_10 [2][2][16] = { 0 };

static float x\_11 [1][1][2] = { 0 };

static float x\_12 [1][1][2] = { 0 };

static float sum\_0 = { 0 };

float \*flat\_x\_0 ;

for (int i\_66 = 0; i\_66 < 36; i\_66 += 1) {

for (int i\_65 = 0; i\_65 < 18; i\_65 += 1) {

for (int i\_64 = 0; i\_64 < 1; i\_64 += 1) {

x\_1[i\_66 + 1][i\_65 + 1][i\_64 + 0] = x\_0[i\_66 + 0][i\_65 + 0][i\_64 + 0] - 0;

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_1", "wb");

for (int i = 0; i < 760; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_1)[i]);

fclose(f);

}

#endif

for (int i\_55 = 0; i\_55 < 36; i\_55 += 1) {

for (int i\_56 = 0; i\_56 < 18; i\_56 += 1) {

for (int i\_57 = 0; i\_57 < 4; i\_57 += 1) {

x\_2[i\_55 + 0][i\_56 + 0][i\_57 + 0] = b\_3[i\_57 + 0];

}

}

}

for (int i\_58 = 0; i\_58 < 36; i\_58 += 1) {

for (int i\_59 = 0; i\_59 < 18; i\_59 += 1) {

for (int i\_60 = 0; i\_60 < 3; i\_60 += 1) {

for (int i\_61 = 0; i\_61 < 3; i\_61 += 1) {

for (int i\_62 = 0; i\_62 < 1; i\_62 += 1) {

for (int i\_63 = 0; i\_63 < 4; i\_63 += 1) {

x\_2[i\_58 / 1 + 0][i\_59 / 1 + 0][i\_63 + 0] += w\_3[i\_60][i\_61][i\_62][i\_63] \* x\_1[i\_58 + i\_60][i\_59 + i\_61][i\_62];

}

}

}

}

}

}

for (int i\_52 = 0; i\_52 < 36; i\_52 += 1) {

for (int i\_53 = 0; i\_53 < 18; i\_53 += 1) {

for (int i\_54 = 0; i\_54 < 4; i\_54 += 1) {

x\_3[i\_52 + 0][i\_53 + 0][i\_54 + 0] = x\_2[i\_52 + 0][i\_53 + 0][i\_54 + 0] < 0 ? 0 : x\_2[i\_52 + 0][i\_53 + 0][i\_54 + 0];

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_3", "wb");

for (int i = 0; i < 2592; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_3)[i]);

fclose(f);

}

#endif

for (int i\_47 = 0; i\_47 < 35; i\_47 += 2) {

for (int i\_48 = 0; i\_48 < 17; i\_48 += 2) {

for (int i\_49 = 0; i\_49 < 4; i\_49 += 1) {

x\_4[i\_47 / 2 + 1][i\_48 / 2 + 1][i\_49 + 0] = x\_3[i\_47][i\_48][i\_49];

for (int i\_50 = 0; i\_50 < 2; i\_50 += 1) {

for (int i\_51 = 0; i\_51 < 2; i\_51 += 1) {

x\_4[i\_47 / 2 + 1][i\_48 / 2 + 1][i\_49 + 0] = x\_3[i\_47 + i\_50][i\_48 + i\_51][i\_49] > x\_4[i\_47 / 2 + 1][i\_48 / 2 + 1][i\_49 + 0] ? x\_3[i\_47 + i\_50][i\_48 + i\_51][i\_49] : x\_4[i\_47 / 2 + 1][i\_48 / 2 + 1][i\_49 + 0];

}

}

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_4", "wb");

for (int i = 0; i < 880; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_4)[i]);

fclose(f);

}

#endif

for (int i\_38 = 0; i\_38 < 18; i\_38 += 1) {

for (int i\_39 = 0; i\_39 < 9; i\_39 += 1) {

for (int i\_40 = 0; i\_40 < 8; i\_40 += 1) {

x\_5[i\_38 + 0][i\_39 + 0][i\_40 + 0] = b\_2[i\_40 + 0];

}

}

}

for (int i\_41 = 0; i\_41 < 18; i\_41 += 1) {

for (int i\_42 = 0; i\_42 < 9; i\_42 += 1) {

for (int i\_43 = 0; i\_43 < 3; i\_43 += 1) {

for (int i\_44 = 0; i\_44 < 3; i\_44 += 1) {

for (int i\_45 = 0; i\_45 < 4; i\_45 += 1) {

for (int i\_46 = 0; i\_46 < 8; i\_46 += 1) {

x\_5[i\_41 / 1 + 0][i\_42 / 1 + 0][i\_46 + 0] += w\_2[i\_43][i\_44][i\_45][i\_46] \* x\_4[i\_41 + i\_43][i\_42 + i\_44][i\_45];

}

}

}

}

}

}

for (int i\_35 = 0; i\_35 < 18; i\_35 += 1) {

for (int i\_36 = 0; i\_36 < 9; i\_36 += 1) {

for (int i\_37 = 0; i\_37 < 8; i\_37 += 1) {

x\_6[i\_35 + 0][i\_36 + 0][i\_37 + 0] = x\_5[i\_35 + 0][i\_36 + 0][i\_37 + 0] < 0 ? 0 : x\_5[i\_35 + 0][i\_36 + 0][i\_37 + 0];

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_6", "wb");

for (int i = 0; i < 1296; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_6)[i]);

fclose(f);

}

#endif

for (int i\_30 = 0; i\_30 < 17; i\_30 += 2) {

for (int i\_31 = 0; i\_31 < 8; i\_31 += 2) {

for (int i\_32 = 0; i\_32 < 8; i\_32 += 1) {

x\_7[i\_30 / 2 + 1][i\_31 / 2 + 1][i\_32 + 0] = x\_6[i\_30][i\_31][i\_32];

for (int i\_33 = 0; i\_33 < 2; i\_33 += 1) {

for (int i\_34 = 0; i\_34 < 2; i\_34 += 1) {

x\_7[i\_30 / 2 + 1][i\_31 / 2 + 1][i\_32 + 0] = x\_6[i\_30 + i\_33][i\_31 + i\_34][i\_32] > x\_7[i\_30 / 2 + 1][i\_31 / 2 + 1][i\_32 + 0] ? x\_6[i\_30 + i\_33][i\_31 + i\_34][i\_32] : x\_7[i\_30 / 2 + 1][i\_31 / 2 + 1][i\_32 + 0];

}

}

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_7", "wb");

for (int i = 0; i < 528; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_7)[i]);

fclose(f);

}

#endif

for (int i\_21 = 0; i\_21 < 9; i\_21 += 1) {

for (int i\_22 = 0; i\_22 < 4; i\_22 += 1) {

for (int i\_23 = 0; i\_23 < 16; i\_23 += 1) {

x\_8[i\_21 + 0][i\_22 + 0][i\_23 + 0] = b\_1[i\_23 + 0];

}

}

}

for (int i\_24 = 0; i\_24 < 9; i\_24 += 1) {

for (int i\_25 = 0; i\_25 < 4; i\_25 += 1) {

for (int i\_26 = 0; i\_26 < 3; i\_26 += 1) {

for (int i\_27 = 0; i\_27 < 3; i\_27 += 1) {

for (int i\_28 = 0; i\_28 < 8; i\_28 += 1) {

for (int i\_29 = 0; i\_29 < 16; i\_29 += 1) {

x\_8[i\_24 / 1 + 0][i\_25 / 1 + 0][i\_29 + 0] += w\_1[i\_26][i\_27][i\_28][i\_29] \* x\_7[i\_24 + i\_26][i\_25 + i\_27][i\_28];

}

}

}

}

}

}

for (int i\_18 = 0; i\_18 < 9; i\_18 += 1) {

for (int i\_19 = 0; i\_19 < 4; i\_19 += 1) {

for (int i\_20 = 0; i\_20 < 16; i\_20 += 1) {

x\_9[i\_18 + 0][i\_19 + 0][i\_20 + 0] = x\_8[i\_18 + 0][i\_19 + 0][i\_20 + 0] < 0 ? 0 : x\_8[i\_18 + 0][i\_19 + 0][i\_20 + 0];

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_9", "wb");

for (int i = 0; i < 576; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_9)[i]);

fclose(f);

}

#endif

for (int i\_13 = 0; i\_13 < 6; i\_13 += 4) {

for (int i\_14 = 0; i\_14 < 3; i\_14 += 2) {

for (int i\_15 = 0; i\_15 < 16; i\_15 += 1) {

x\_10[i\_13 / 4 + 0][i\_14 / 2 + 0][i\_15 + 0] = x\_9[i\_13][i\_14][i\_15];

for (int i\_16 = 0; i\_16 < 4; i\_16 += 1) {

for (int i\_17 = 0; i\_17 < 2; i\_17 += 1) {

x\_10[i\_13 / 4 + 0][i\_14 / 2 + 0][i\_15 + 0] = x\_9[i\_13 + i\_16][i\_14 + i\_17][i\_15] > x\_10[i\_13 / 4 + 0][i\_14 / 2 + 0][i\_15 + 0] ? x\_9[i\_13 + i\_16][i\_14 + i\_17][i\_15] : x\_10[i\_13 / 4 + 0][i\_14 / 2 + 0][i\_15 + 0];

}

}

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_10", "wb");

for (int i = 0; i < 64; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_10)[i]);

fclose(f);

}

#endif

for (int i\_4 = 0; i\_4 < 1; i\_4 += 1) {

for (int i\_5 = 0; i\_5 < 1; i\_5 += 1) {

for (int i\_6 = 0; i\_6 < 2; i\_6 += 1) {

x\_11[i\_4 + 0][i\_5 + 0][i\_6 + 0] = b\_0[i\_6 + 0];

}

}

}

for (int i\_7 = 0; i\_7 < 1; i\_7 += 1) {

for (int i\_8 = 0; i\_8 < 1; i\_8 += 1) {

for (int i\_9 = 0; i\_9 < 2; i\_9 += 1) {

for (int i\_10 = 0; i\_10 < 2; i\_10 += 1) {

for (int i\_11 = 0; i\_11 < 16; i\_11 += 1) {

for (int i\_12 = 0; i\_12 < 2; i\_12 += 1) {

x\_11[i\_7 / 1 + 0][i\_8 / 1 + 0][i\_12 + 0] += w\_0[i\_9][i\_10][i\_11][i\_12] \* x\_10[i\_7 + i\_9][i\_8 + i\_10][i\_11];

}

}

}

}

}

}

flat\_x\_0 = (float\*)x\_11;

for (int i\_0 = 0; i\_0 < 2; i\_0 += 1) {

sum\_0 += expf(flat\_x\_0[i\_0 + 0]);

}

for (int i\_1 = 0; i\_1 < 1; i\_1 += 1) {

for (int i\_2 = 0; i\_2 < 1; i\_2 += 1) {

for (int i\_3 = 0; i\_3 < 2; i\_3 += 1) {

x\_12[i\_1 + 0][i\_2 + 0][i\_3 + 0] = expf(x\_11[i\_1 + 0][i\_2 + 0][i\_3 + 0]) / sum\_0;

}

}

}

#ifdef CNN\_TEST

{

FILE \*f = fopen("x\_12", "wb");

for (int i = 0; i < 2; i++)

fprintf(f, "%8.8e\n", ((float\*)x\_12)[i]);

fclose(f);

}

#endif

x\_13 = (float\*)x\_12;

return;

}

#ifdef CNN\_TEST

#include <stdio.h>

#ifdef TIMING

#include <ctime>

#endif

int main()

{

int i, j, k, width, height, max\_colour;

unsigned char byte;

float x[36][18][1];

float scores[2];

FILE \*f = fopen("img.bin", "rb");

fread((float\*)x, sizeof(float), 36 \* 18 \* 1, f);

fclose(f);

cnn(x, scores);

FILE \*w = fopen("result.txt", "w");

for (int i = 0; i < 2; i++)

fprintf(w, "%f ", scores[i]);

fclose(w);

}

#endif