

```

//static int k=16;
static int dj = nx_g+4;
static int dk = dj *(ny_g+ 4);
static int dkxnzby2 =(nz_g/2)* dk;
static double x, y;
double norma2;
glClearColor(0.0,0.0,0.0,0.0);
glClear(GL_COLOR_BUFFER_BIT | GL_DEPTH_BUFFER_BIT);

glDisable(GL_LIGHTING);
glBegin(GL_LINES);
for(int i=1 ; i<nx_g+2 ; i++)
{
    x = i*(2.0/(nx_g+3))-1.0;
    for (int j=1 ; j<ny_g+2 ; j++ )
    {
        int index = i + j*dj + dkxnzby2;
        if(flag_g[index] >= FLUID)
        {
            y = j*(2.0/(ny_g+3))-1.0;
            glColor3f(0.0, 0.0, 1.0);
            glVertex2f ( x, y);
            glColor3f(1.0, 0.0, 0.0);
            glVertex2f ( x + gridUVW_g[0][index], y + gridUVW_g[1][index]);
        }
    }
}
glEnd ();
}

static void draw_velocity2 ()
{
    static double x, y;
    static int dj = nx_g +4;
    static int dk = dj *(ny_g + 4);
    static int dkxnzby2 =(nz_g/2)* dk;
    double norma2;
    glClearColor(0.0,0.0,0.0,0.0);
    glClear(GL_COLOR_BUFFER_BIT | GL_DEPTH_BUFFER_BIT);
    //int k=64;
    glDisable(GL_LIGHTING);
    glBegin(GL_LINES);
    for(int i=1 ; i<nx_g+2 ; i++)
    {
        x = i*(2.0/(nx_g+3))-1.0;
        for (int j=1 ; j<ny_g+2 ; j++ )
        {
            int index = i+j*dj+dkxnzby2;
            if(flag_g[index] >= FLUID){
                y = j*(2.0/(ny_g+3))-1.0;
                glColor3f(0.0, 0.0, 1.0);
                glVertex2f ( x, y);
                glColor3f(1.0, 0.0, 0.0);
                glVertex2f ( x + gridCellUVW_g[0][index], y + gridCellUVW_g[1][index]);
            }
        }
    }
    glEnd ();
}

```

