```c
void guessp(float dl, float ul, float pl, float cl,
            float dr, float ur, float pr, float cr,
            float &pm)
{
    float cup, gel, ger, pmax, pmin, ppv, pq, ptl, ptr, qmax, quser, um;

    quser = 2.0;

    cup = 0.25 * (dl + dr) * (cl + cr);
    ppv = 0.5 * (pl + pr) + 0.5 * (ul - ur) * cup;
    ppv = (ppv > 0.0) ? ppv : 0.0;
    pmin = (pl < pr) ? pl : pr;
    pmax = (pl > pr) ? pl : pr;
    qmax = pmax / pmin;

    if ((qmax <= quser) && (pmin <= ppv) && (ppv <= pmax))
    {
        pm = ppv;
    }
    else
    {
        if (ppv < pmin)
        {
            pq = pow(pl / pr, G1);
            um = (pq * ul / cl + ur / cr + G4 * (pq - 1.0)) / (pq / cl + 1.0 / cr);
            ptl = 1.0 + G7 * (ul - um) / cl;
            ptr = 1.0 + G7 * (um - ur) / cr;
            pm = 0.5 * (pow(pl * ptl, G3) + pow(pr * ptr, G3));
        }
        else
        {
            gel = sqrt((G5 / dl) / (G6 * pl + ppv));
            ger = sqrt((G5 / dr) / (G6 * pr + ppv));
            pm = (gel * pl + ger * pr - (ur - ul)) / (gel + ger);
        }
    }
}
```