## 会肥工堂大学 HEFEI UNIVERSITY OF TEC 1.14 12 speedup = old-time/new-time = 1-++f/s 知: 总加速比= 1-0.2+0.2/2 21.11 6. 数据缓存治问时间又与总执行时间/%并且减缓倍数为1.5 ·· 现在总加速比= 1-0.2-0.1+0.2/2+0.1×15 ~1.05 C. 实现新的浮点运算后,因为加速比为1.05 海点运算与执行时间自分比 = $\frac{0.2/2}{1-(1.05-1)} = \frac{0.1}{0.95} \approx 10.53\%$ 数据缓存访问所占有分比= $\frac{0.1 \times 1.5}{1-(1.05-1)} = \frac{0.15}{0.95} \approx 15.79%$ 1.16 Q. 由于打象 茶2 N行处理器加速比=1-0.8+0.8/N = 10.2+0.8/N b. 8个处理器通信开销占性: 8×0.005 = 0.04 刚加速比= 1-0.8+0.8/8+0.04 ~ 2.94 C. : 23=8 : 8个处理器通信开销与比: 3×0.005=0.015 加速比= F0.8+0.8/8+0.015 23.17 d. N个处理器通信开销与比: 10g/x x 0.005 加速比= 0.2+0.8/N + 0.005/0g/N e. i文か東岩数はわい、ナ(X) = (1-PX10-2)+ PX10-2+0.005 logx f(X) = PX10-1/2 - 0.005 X = (1-PX10-2)+ PX10-2 + 0.005 log X X-1/2 · [(1-PX10-2)+ PX10-2 + 0.005 log X] な f'(X)=0, X=2P1/2, t(X)存職大値

 $N = \lceil X \rceil = \lceil 2 \rceil / n^2 \rceil$