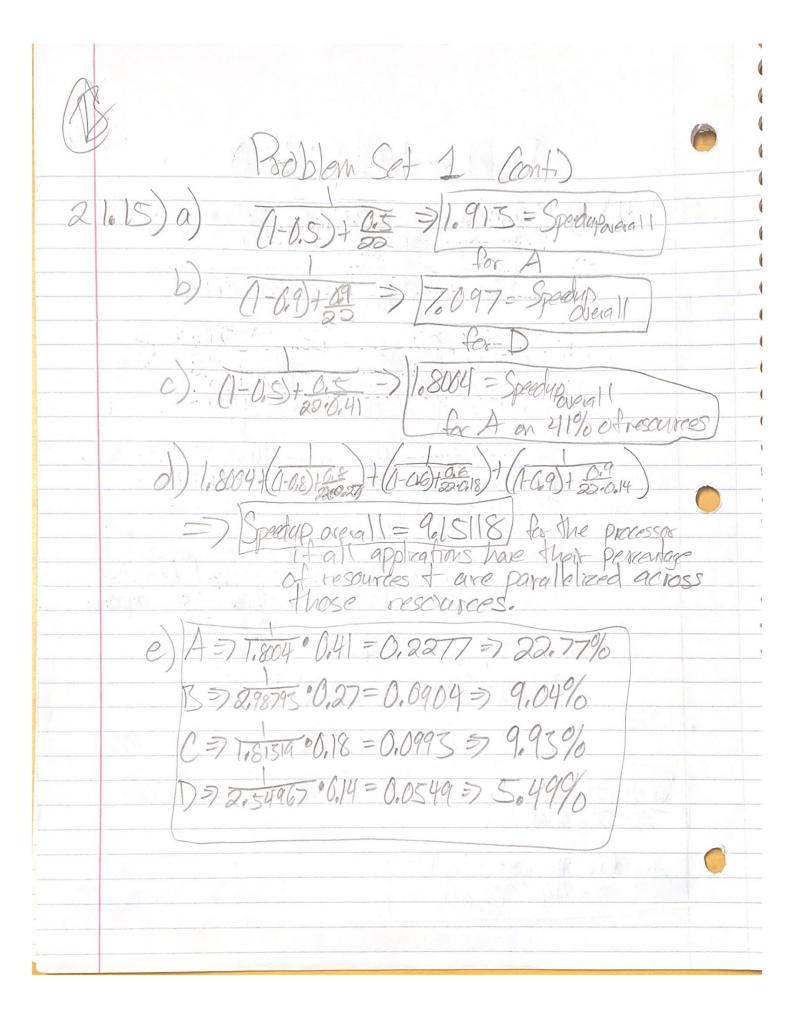


Problem Set 1 Ease The MIPS, architecture

Problem Set 1 (cont) (08) 109, 101, 1e15, 1e16 less or /4 the original energ o some hose are entirely turned off, 40% + (60% 0 20%) 2 or S2% of aigma - 48% powersaved. ower = Evary · Foreg Prew = 2. C. (0.8. V.) · (0.6. Frey Poly = j.C. V2. Fa or 2 38.4% of original energy or 61.6 0.3.0.2)=0.46 6 of original power of 54% power

Problem Set 1 (conf) Downtme per hour = 90000 90000=(0.+0.+0.+20)/4 => 90000 = 4 Q => Q(Avg cost per quarter) Qu=20 => Qu= 144000 na dount the cost normally => \$72,000 (hour Aug downtome cost for 64 => \$144,000/har



Problem Set 1 (cont) Speedup = 0.2+ 0.8 Sadda processors each 0,590 of oniginal exertime Deedus (1-0.8) + (8-0.005) + (0.8 pardup = 2.94 peedup = (1-0.8)+(log/N).0.000)+

