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| 1、数组求和 int sum(int[] x, int n){ int i, s=x[0]; for(i=1; i<n; i++)s+=x[i]; return s; } | 1.i->$t0 s->$t1 sum: addi $t0,$zero,1 add $t1,$a0,$zero lw $t1,0($t1) For: slt $t2,$t0,$a1 beq $t2,$zero,Exjt add $t2,$t0,$t0 add $t2,$t2,$t2 add $t2,$a0,$t2 lw $t2,0($t2) add $t1,$t1,$t2 inc $t0 j For Exjt: move $v0,$t1 jr $ra |
| 2、字符串中，字符c的个数 int num(char[] s, char c){ int i, n=0; for(i=0; s[i]!=0; i++)if(s[i]==c)n++; return n; } | 2、 num: addi $t3, $zero, 0 addi $t1, $zero, 0 for: sll $t2, $t1, 2 add $t2, $a0, $t2 lw $t0, 0($t2) beq $t0, $zero, exit bne $t0, $a1, next inc $t3 next: inc $t1 j for exit: addi $v0, $t3, 0 jr $ra |
| 3、显示整数数组元素 void dispInt(int[] x, int n){ for(int i=0; i<n; i++)printf("%d",x[i]); } |  |
| 4、64-bit加法：($s1,$s0)+($s3,$s2)= ($s5,$s4) | 4.  add64: addi $t0, $s0, $zero add $s4, $s0, $s2 sltu $t0, $s4, $t0 add $s5, $s1,$s3 add $s5, $s5, $t0 |