**PROGRAM 4 (Awk)**

BEGIN{

#include<Stdio.h>

count1=0

time1=0

pack1=0

count2=0

pack2=0

time2=0

}

{

if($1=="r"&&$3=="\_1\_"&&$4=="RTR")

{

count1++

time1=$2

pack1=pack1+$8

}

if($1=="r"&&$3=="\_2\_"&&$4=="RTR")

{

count2++

time2=$2

pack2=pack2+$8

}

}

END{

printf("The throughput between n0 and n1 = %f \n",((count1\*pack1\*8)/(time1\*1000000)))

printf("The throughput between n1 and n2 = %f \n",((count2\*pack2\*8)/(time2\*1000000)))

}