CPU SCHEDULING ALGORITHM

"EXPERIMENT 5"

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17.01.53.2006

WORST FIT

forlediska@RACHEL-FASP: ~

```
oid main()
                  int frag[max],b[max],f[max],i,j,nb,nf,temp;
static int bf[max],ff[max];
                 printf("\n\tMemory Management Scheme - First Fit");
printf("\nEnter the number of blocks:");
scanf("%d",&nb);
printf("Enter the number of files:");
                  scanf("%d",&nf);
printf("\nEnter the
for(i=1;i<=nb;i++)</pre>
                                printf("Block %d:",i);
scanf("%d",&b[i]);
                  printf("Enter the s
for(i=1;i<=nf;i++)</pre>
                                printf("File %d:",i);
scanf("%d",&f[i]);
                                                               temp=b[j]-f[i]; if(temp>=0)
                                                                             ff[i]=j;
                                frag[i]=temp;
bf[ff[i]]=1;
                  }
printf("\nFile_no:\tFile_size :\tBlock_no:\tBlock_size:\tFragement");
for(i=1;i<=nf;i++)
    printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",i,f[i],ff[i],b[ff[i]],frag[i]);</pre>
forlediska@RACHEL-FASP: ~
                    ACHEL-FASP:~$ ./worstfit.out
Memory Management Scheme - First Fit
Enter the number of blocks:3
Enter the number of files:2
Enter the size of the blocks:-
Block 1:5
Block 2:2
Block 2:2
Block 3:7
Enter the size of the files :-
File 1:1
File 2:4
File_no:
                          File_size :
                                                    Block_no:
                                                                               Block_size:
                                                                                                          Fragement
 orlediska@RACHEL-FASP:~$ _
```

BEST FIT

```
forlediska@RACHEL-FASP: ~
```

```
/oid main()
         int frag[max],b[max],f[max],i,j,nb,nf,temp,lowest=100
_tatic int bf[max],ff[max];
         printf("\nE
         scanf("%
printf("
                       ",&nb);
                     d",&nf);
         scanf('
         printf("Enter the size of the files :-\n");
for(i=1;i<=nf;i++)
{</pre>
                    printf("File %d:",i);
scanf("%d",&f[i]);
          for(i=1;i<=nf;i++)
                     for(j=1;j<=nb;j++)</pre>
                                if(bf[j]!=1)
                                           temp=b[j]-f[i];
                                           if(temp>=0)
    if(lowest>temp)
                                                                  ff[i]=j;
lowest=temp;
                    frag[i]=lowest;
bf[ff[i]]=1;
                     lowest=10
         fprintf("\nFile No\tFile Size \tBlock No\tBlock Size\tFragment");
for(i=1;i<=nf && ff[i]!=0;i++)
    printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d",i,f[i],ff[i],b[ff[i]],frag[i]);</pre>
```

forlediska@RACHEL-FASP: ~

```
ediska@RACHEL-FASP:~$ ./bestfit.out
Enter the number of blocks:4
Enter the number of files:3
Enter the size of the blocks:-
Block 1:3
Block 2:4
Block 3:5
Block 4:6
Enter the size of the files :-
File 1:3
File 2:4
File 3:5
File No File Size
                                                   Block Size
                              Block No
                                                                        Fragment
 orlediska@RACHEL-FASP:~$ _
```

FIRST FIT

```
forlediska@RACHEL-FASP: ~
 oid main()
           int frag[max],b[max],f[max],i,j,nb,nf,temp,highest=0;
static int bf[max],ff[max];
           printf("\n\t
           printf("
           scanf(")
                         ",&nb);
          scanf("%d",&nf);
printf("\nEnter the
for(i=1;i<=nb;i++)</pre>
                      printf("Block %d:",i);
scanf("%d",&b[i]);
           printf("Enter the s
for(i=1;i<=nf;i++)</pre>
                      printf("File %d:",i);
scanf("%d",&f[i]);
          if(temp>=0)
    if(highest<temp)</pre>
                                                                     ff[i]=j; highest=temp;
                      frag[i]=highest;
bf[ff[i]]=1;
                      highest=0;
          }
printf("\nFile_no:\tFile_size :\tBlock_no.\text-
for(i=1;i<=nf;i++)
    printf("\n%d\t\t%d\t\t%d\t\t%d\t\t%d\t\t%d",i,f[i],ff[i],b[ff[i]],frag[i]);</pre>
"firstfit.c" 47L, 973C
```