

SISTEMAS OPERATIVOS 1

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CÓDIGO

holaMundoPipes.c //gcc 7.4.0 /* **0** a m d olUn h #include <stdio.h> #include <stdlib.h> #include <sys/wait.h> int main(void) pid_t pA,pO,pH,pL,pM,pU,pD,pN; int fd[2]; char buffer[20]; char resultado[20]; //write(fd[1],buffer,strlen(buffer)); //read(fd[0],buffer,20); pipe(fd); $if((pA=fork()) == 0){ //proceso a}$ $if((pO=fork()) == 0){ //proceso o}$ $if((pH=fork()) == 0){ //proceso h}$ strcat(buffer, "H"); write(fd[1],buffer,strlen(buffer)); }else{ //proceso o waitpid(pH,NULL,0); strcat(buffer, "O"); write(fd[1],buffer,strlen(buffer)); }else{ //proceso a waitpid(pO,NULL,0); $if((pL=fork()) == 0){ //proceso } I$ strcat(buffer, "L"); write(fd[1],buffer,strlen(buffer)); }else{ //proceso a waitpid(pL,NULL,0); strcat(buffer, "A"); write(fd[1],buffer,strlen(buffer));

} }

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read(fd[0],buffer,20);
printf("%s",buffer);
}else{ //proceso 0
waitpid(pA,NULL,0);
if((pM=fork()) == 0){ //proceso m}
strcat(buffer, " M");
write(fd[1],buffer,strlen(buffer));
}else{ //proceso 0
waitpid(pM,NULL,0);
if((pU=fork()) == 0){ //proceso u}
strcat(buffer, "U");
write(fd[1],buffer,strlen(buffer));
}else{ //proceso d
waitpid(pN,NULL,0);
if((pN=fork()) == 0){ //proceso n}
strcat(buffer, "N");
write(fd[1],buffer,strlen(buffer));
}else{ //proceso d
waitpid(pN,NULL,0);
strcat(buffer, "D");
write(fd[1],buffer,strlen(buffer));
}
}else{ //proceso 0
waitpid(pD,NULL,0);
strcat(buffer, "O\n");
write(fd[1],buffer,strlen(buffer)+1);
read(fd[0],buffer,20);
printf("%s",buffer);
}
return 0;
```

irvyn@irvyn-System-Product-Name:~/Documentos/S01\$./holaMundoPipes
HOLA MUNDO
irvyn@irvyn-System-Product-Name:~/Documentos/S01\$ []