

GNU nano 2.9.4

/sys/kern/sys_generic.c

M

```
int
sys_khello(struct proc *p, void *v, register_t *retval)
{
    struct sys_khello_args *uap = v;
    char kmsg[1001];
    copyinstr(SCARG(uap,msg), kmsg, 100, NULL);
    kmsg[99]='\0';
    printf("%s\n",kmsg);
    return 0;
}
```

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```
324         int tofd, const char *to); }
325     STD      { int sys_symlinkat(const char *path, int fd, \
               const char *link); }
326     OBSOL    t32_utimensat
327     OBSOL    t32_futimens
328     OBSOL    __tfork51
329     STD NOLOCK { void sys___set_tcb(void *tcb); }
330     STD NOLOCK { void *sys___get_tcb(void); }
331     STD      {int sys_khello(const char *msg); }
```

```
openbsd# cd /sys/kern && make syscalls
sh makesyscalls.sh syscalls.conf syscalls.master
openbsd#
```

opebsd [Running] - Oracle VM VirtualBox

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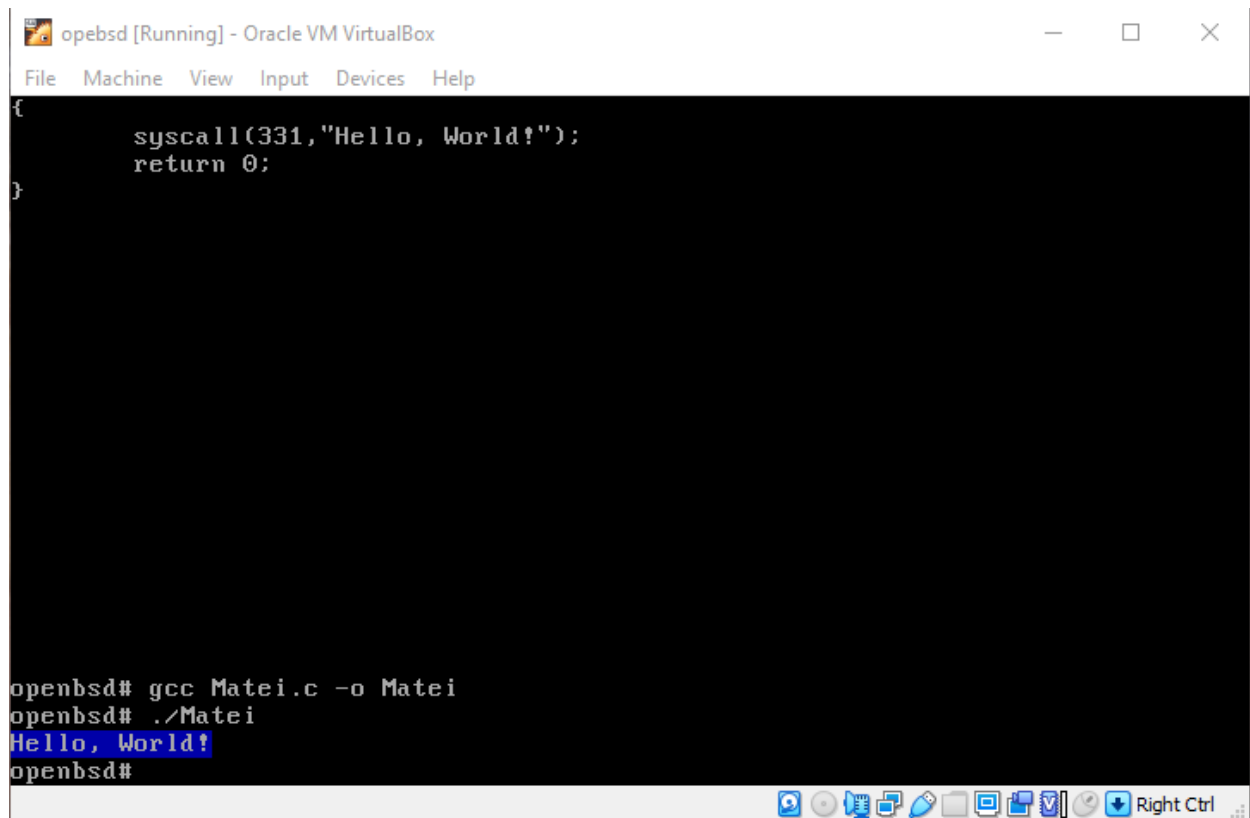
Modified

```
int main()
{
    syscall(331,"Hello, World!");
    return 0;
}
```

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```
{  
    syscall(331, "Hello, World!");  
    return 0;  
}
```

opebsd# gcc Matei.c -o Matei
opebsd# ./Matei
Hello, World!
opebsd#

```
325      STD      { const char *link); }
              { int sys_unlinkat(int fd, const char *path, \
              int flag); }
326      OBSOL    t32_utimensat
327      OBSOL    t32_futimens
328      OBSOL    __tfork51
329      STD NOLOCK { void sys___set_tcb(void *tcb); }
330      STD NOLOCK { void *sys___get_tcb(void); }
331      STD      {int sys_khello(char* s, char* d, int sz);}
```

```
openbsd# cd /sys/kern && make syscalls
sh makesyscalls.sh syscalls.conf syscalls.master
openbsd# _
```

```
struct sys_khello_args *uap = v;
char ssl2001;
copyinstr(SCARG(uap,s), ss, 199, NULL);
char* dd = SCARG(uap,d);
int q = SCARG(uap, sz);
for(i=0; i<q && ss[i]; i++)
    dd[i] = ss[i];
printf("%d\n",i);
return 0;
}
```

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```
#include <unistd.h>
#include <sys/types.h>
#include <sys/stat.h>
#include <fcntl.h>
#include <errno.h>

int main()
{
    int z = 100;
    char f1[1001] = "0 propozitie frumoasa.";
    char f2[1001] = "Aici, nimic.";
    printf("%s,%s\n",f1,f2);
    syscall(331,f1,f2,z);
    printf("%s,%s\n",f1,f2);
    return 0;
}
```

```
openbsd# ./Matei
0 propozitie frumoasa.,Aici, nimic.
22
0 propozitie frumoasa.,0 propozitie frumoasa.
openbsd# _
```