

**ADos**

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# Chapter 1

## ADos

### 1.1 AmigaTalk to AmigaDOS Help:

The AmigaTalk interface to the AmigaDOS functions has been divided up into four classifications:

SAFE - Incorrect parameters will not cause major problems.

UNSAFE - Ensure that parameters & methods that are marked UNSAFE are checked for correct return values.

DANGEROUS - The Methods that use DANGEROUS AmigaDOS functions could cause loss of data or could freeze the Operating System!

VERY DANGEROUS - The Methods that use VERY DANGEROUS AmigaDOS functions could cause a major loss of data (example: the Format function), or could lock up your PC!

WARNING: Know what you're doing when using the AmigaTalk-to-AmigaDOS interface (If you destroy your HardDisk contents, you were warned)!

Each Method is first described by the AmigaDOS documentation for the underlying AmigaDOS function, then by the AmigaTalk Method description. Hopefully, this will force you to read what each function does to the Operating System of your Amiga first, before trying to do something potentially destructive to your Amiga-PC.

None of the Methods here will present a Requester re: your sanity (unless the underlying AmigaDOS function does so), so you will have no feedback about what your AmigaTalk program is doing, unless you create your own sub-classes that hold your hand better. My intent was to implement the functionality of AmigaDOS as closely as possible, so if you do not like something about these classes, either re-write AmigaDOS or create your own (more bullet-proof)

AmigaTalk classes!

There is also a Class called  
    DosFlags  
    that is useful with these  
Classes.

Check them out:

SAFE	Methods
UNSAFE	Methods
DANGEROUS	Methods
VERY DANGEROUS	Methods
- Here be Dragons!!	

## 1.2 SAFE AmigaDOS Methods:

The functions listed here & used by AmigaTalk have been deemed the least harmful of the AmigaDOS functions. This is based on my judgement only, but here is how I arrived at this: The functions determined to be safe are mainly for gathering information from AmigaDOS. Those that actually change things are easily corrected by the User (for example: If you use setComment: commentString onFile: fileName & you used the wrong commentString, you can always re-do the Method with the correct comment, or correct it using a file utility, such as DirOpus or DiskMaster II). Where it made sense to do so, the arguments the User supplies these functions/Methods are also checked for valid ranges or values, so even if you pass in a NULL pointer, AmigaTalk should short-circuit your attempt to kill your system (I hope!).

SAFE AmigaDOS Functions/AmigaTalk Methods:

```
waitForChar
vPrintf
vFPrintf
unGetC
strToLong
strToDate
splitName
setProtection
setPrompt
setIoErr
setFileDate
setComment
sameLock
sameDevice
readLink
readItem
readArgs
```

```
readFile
putStr
printFault
pathPart
parentOfFH
parentDir
maxCli
matchNext
matchFirst
matchEnd
isInteractive
isFileSystem
ioErr
getVar
getPrompt
getProgramName
getProgramDir
getFileSysTask
getDeviceProc
getCurrentDirName
getConsoleTask
getArgStr
fPutS
fPutC
findVar
findCliProc
fGetS
fGetC
fault
endNotify
delay
dateToStr
currentDir
compareDates
cliPointer
addBuffers
abortPacket
```

### 1.3 UNSAFE AmigaDOS Methods:

It's advisable that the User of these AmigaTalk Methods check their work before usage.

This classification is based on my judgement only, but here is how I arrived at this: The functions determined to be Unsafe can change file Locks, traverse a directory, or change something (such as an Assignment) that might not be easily found or corrected.

Where it made sense to do so, the arguments the User supplies these functions/Methods are also checked for valid ranges or values, so even if you pass in a NULL pointer, AmigaTalk should short-circuit your attempt to kill your system (I hope!).

---

## UNSAFE AmigaDOS Functions/AmigaTalk Methods:

writeChars  
vFWritef  
unLockRecords  
unLockRecord  
unLockDosList  
unLock  
startNotify  
setVar  
setProgramName  
setProgramDir  
setOwner  
setMode  
setCurrentDirName  
rename  
relabel  
parsePatternNoCase  
parsePattern  
output  
openFromLock  
openFile  
nextDosEntry  
nameFromLock  
nameFromFH  
matchPatternNoCase  
matchPattern  
makeLink  
makeDosEntry  
lockRecords  
lockRecord  
lockDosList  
lock  
input  
infoDisk  
fRead  
flushFH  
findSegment  
findDosEntry  
findArg  
exNext  
execute  
examineFH  
examine  
exAllEnd  
exAll  
dupLockFromFH  
dupLock  
dateStamp  
closeFile  
checkSignal  
changeMode  
assignPath  
assignLock  
assignLate  
assignAdd  
addPart

---

## 1.4 DANGEROUS AmigaDOS Methods:

WARNING: Improper usage of these Methods will (at the bare minimum), result in the Operating System hanging up, which could result in loss of data. This is the least of what could happen! Turn back now!

DANGEROUS AmigaDOS Functions/AmigaTalk Methods:

```
writeFile
setVBuf
setFileSize
setArgStr
selectOutput
selectInput
seekFile
runCommand
replyPkt
inhibit
fWrite
freeDosObject
freeDosEntry
freeDeviceProc
freeArgs
exitProgram          -- Avoid like the plague!
deviceProc
deleteVar
createNewProc
cliInitRun
cliInitNewcli
attemptLockDosList
allocDosObject
addDosEntry
```

## 1.5 VERY DANGEROUS AmigaDOS Methods:

WARNING: Improper usage of these Methods will (at the bare minimum), result in the Operating System hanging up, which could result in loss of data. This is the least of what could happen! Turn back now!

VERY DANGEROUS AmigaDOS Functions/AmigaTalk Methods:

```
waitPkt
unLoadSeg
systemTagList
setFileSysTask
setConsoleTask
sendPkt
remSegment
remDosEntry
remAssignList
newLoadSeg
loadSeg
internalUnLoadSeg
internalLoadSeg
```

---



```
format          -- Are you out of your tree??
doPacket
deleteFile
addSegment
```

## 1.6 ADos Full Index:

SAFE AmigaDOS Functions/AmigaTalk Methods:

```
waitForChar
vPrintf
vFPrintf
unGetC
strToLong
strToDate
splitName
setProtection
setPrompt
setIoErr
setFileDate
setComment
sameLock
sameDevice
readLink
readItem
readArgs
readFile
putStr
printFault
pathPart
parentOfFH
parentDir
maxCli
matchNext
matchFirst
matchEnd
isInteractive
isFileSystem
ioErr
getVar
getPrompt
getProgramName
getProgramDir
getFileSysTask
getDeviceProc
getCurrentDirName
getConsoleTask
getArgStr
fPutS
fPutC
findVar
findCliProc
filePart
fGetS
fGetC
fault
```

---

endNotify  
delay  
dateToStr  
currentDir  
compareDates  
cliPointer  
addBuffers  
abortPacket

UNSAFE AmigaDOS Functions/AmigaTalk Methods:

writeChars  
vFwritef  
unlockRecords  
unlockRecord  
unlockDosList  
unlock  
startNotify  
setVar  
setProgramName  
setProgramDir  
setOwner  
setMode  
setCurrentDirName  
rename  
relabel  
parsePatternNoCase  
parsePattern  
output  
openFromLock  
openFile  
nextDosEntry  
nameFromLock  
nameFromFH  
matchPatternNoCase  
matchPattern  
makeLink  
makeDosEntry  
lockRecords  
lockRecord  
lockDosList  
lock  
input  
infoDisk  
fRead  
flushFH  
findSegment  
findDosEntry  
findArg  
exNext  
execute  
examineFH  
examine  
exAllEnd  
exAll  
dupLockFromFH  
dupLock

---

dateStamp  
closeFile  
checkSignal  
changeMode  
assignPath  
assignLock  
assignLate  
assignAdd  
addPart

DANGEROUS AmigaDOS Functions/AmigaTalk Methods:

writeFile  
setVBuf  
setFileSize  
setArgStr  
selectOutput  
selectInput  
seekFile  
runCommand  
replyPkt  
inhibit  
fWrite  
freeDosObject  
freeDosEntry  
freeDeviceProc  
freeArgs  
exitProgram           -- Avoid like the plague!  
deviceProc  
deleteVar  
createNewProc  
cliInitRun  
cliInitNewcli  
attemptLockDosList  
allocDosObject  
addDosEntry

VERY DANGEROUS AmigaDOS Functions/AmigaTalk Methods:

waitPkt  
unLoadSeg  
systemTagList  
setFileSysTask  
setConsoleTask  
sendPkt  
remSegment  
remDosEntry  
remAssignList  
newLoadSeg  
loadSeg  
internalUnLoadSeg  
internalLoadSeg  
format               -- Are you out of your tree??  
doPacket  
deleteFile  
addSegment

---

## 1.7 DosFlags Class:

This class is a Singleton Class that works like a Dictionary. You retrieve a value by supplying a key to the class method systemTag:

The methods the class recognizes are:

isSingleton

Since this Class is a Singleton, return true.

new

Create (if necessary) & initialize a new instance of the Class.

close " Remove, Kill, Destroy, Burn the Bridge, etc! "

Before exiting AmigaTalk be sure to send this message to dosFlags. (Better still, place dosFlags close in the UpdateCommands script file).

systemTag: aSymbol

Search for aSymbol in the dictionary & return it's associated value:

isNil

We have to override our parent Class methods, because we are not nil.

notNil

We have to override our parent Class methods, because we are not nil.

ifNil: aBlock

We have to override our parent Class methods, because we are not nil.

printString

Simply return our dictionary fileName.

~~~~~  
Here's a list of the keys the Class knows about:

```

ABORT_BUSY                -- AmigaDOS Packets
ABORT_DISK_ERROR
ACCESS_READ
ACCESS_WRITE
ACTION_ADD_NOTIFY
ACTION_CHANGE_MODE
ACTION_CHANGE_SIGNAL
ACTION_COPY_DIR
ACTION_COPY_DIR_FH
ACTION_CREATE_DIR
ACTION_CURRENT_VOLUME

```

ACTION\_DELETE\_OBJECT  
ACTION\_DIE  
ACTION\_DISK\_CHANGE  
ACTION\_DISK\_INFO  
ACTION\_DISK\_TYPE  
ACTION\_END  
ACTION\_EVENT  
ACTION\_EXAMINE\_ALL  
ACTION\_EXAMINE\_ALL\_END  
ACTION\_EXAMINE\_FH  
ACTION\_EXAMINE\_NEXT  
ACTION\_EXAMINE\_OBJECT  
ACTION\_FH\_FROM\_LOCK  
ACTION\_FINDINPUT  
ACTION\_FINDOUTPUT  
ACTION\_FINDUPDATE  
ACTION\_FLUSH  
ACTION\_FORMAT  
ACTION\_FREE\_LOCK  
ACTION\_FREE\_RECORD  
ACTION\_GET\_BLOCK  
ACTION\_INFO  
ACTION\_INHIBIT  
ACTION\_IS\_FILESYSTEM  
ACTION\_LOCATE\_OBJECT  
ACTION\_LOCK\_RECORD  
ACTION\_MAKE\_LINK  
ACTION\_MORE\_CACHE  
ACTION\_NIL  
ACTION\_PARENT  
ACTION\_PARENT\_FH  
ACTION\_READ  
ACTION\_READ\_LINK  
ACTION\_READ\_RETURN  
ACTION\_REMOVE\_NOTIFY  
ACTION\_RENAME\_DISK  
ACTION\_RENAME\_OBJECT  
ACTION\_SAME\_LOCK  
ACTION\_SCREEN\_MODE  
ACTION\_SEEK  
ACTION\_SERIALIZE\_DISK  
ACTION\_SET\_COMMENT  
ACTION\_SET\_DATE  
ACTION\_SET\_FILE\_SIZE  
ACTION\_SET\_MAP  
ACTION\_SET\_OWNER  
ACTION\_SET\_PROTECT  
ACTION\_STARTUP  
ACTION\_TIMER  
ACTION\_WAIT\_CHAR  
ACTION\_WRITE  
ACTION\_WRITE\_PROTECT  
ACTION\_WRITE\_RETURN  
  
ADO\_CommFileLen  
ADO\_CommNameLen  
ADO\_DirLen

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ADO\_FH\_Mode  
ADO\_PromptLen  
APF\_DIDDIR  
APF\_DODIR  
APF\_DODOT  
APF\_DOWILD  
APF\_DirChanged  
APF\_FollowHLinks  
APF\_ITSWILD  
APF\_NOMEMERR  
BUF\_FULL  
BUF\_LINE  
BUF\_NONE  
CHANGE\_FH  
CHANGE\_LOCK  
CMD\_DISABLED  
CMD\_INTERNAL  
CMD\_SYSTEM  
COMPLEX\_BIT  
DDF\_AllBit  
DDF\_Completed  
DDF\_ExaminedBit  
DDF\_PatternBit  
DDF\_Single

DE\_BAUD  
DE\_BLKSPERTRACK  
DE\_BOOTBLOCKS  
DE\_BOOTPRI  
DE\_BUFMEMTYPE  
DE\_CONTROL  
DE\_DOSTYPE  
DE\_INTERLEAVE  
DE\_LOWCYL  
DE\_MASK  
DE\_MAXTRANSFER  
DE\_NUMBUFFERS  
DE\_NUMHEADS  
DE\_PREFAC  
DE\_RESERVEDBLKS  
DE\_SECORG  
DE\_SECSPERBLK  
DE\_SIZEBLOCK  
DE\_TABLESIZE  
DE\_UPPERCYL

DLT\_DEVICE  
DLT\_DIRECTORY  
DLT\_LATE  
DLT\_NONBINDING  
DLT\_PRIVATE  
DLT\_VOLUME  
DOSFALSE  
DOSTRUE  
DOS\_CLI  
DOS\_EXALLCONTROL  
DOS\_FIB

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DOS\_FILEHANDLE  
DOS\_RDARGS  
DOS\_STDPKT  
DTF\_FUTURE  
DTF\_SUBST  
DVPF\_ASSIGN  
DVPF\_UNLOCK  
ED\_COMMENT  
ED\_DATE  
ED\_NAME  
ED\_OWNER  
ED\_PROTECTION  
ED\_SIZE  
ED\_TYPE  
ENDSTREAMCH

ERROR\_ACTION\_NOT\_KNOWN           -- AmigaDOS Error numbers  
ERROR\_BAD\_HUNK  
ERROR\_BAD\_NUMBER  
ERROR\_BAD\_STREAM\_NAME  
ERROR\_BAD\_TEMPLATE  
ERROR\_BREAK  
ERROR\_BUFFER\_OVERFLOW  
ERROR\_COMMENT\_TOO\_BIG  
ERROR\_DELETE\_PROTECTED  
ERROR\_DEVICE\_NOT\_MOUNTED  
ERROR\_DIRECTORY\_NOT\_EMPTY  
ERROR\_DIR\_NOT\_FOUND  
ERROR\_DISK\_FULL  
ERROR\_DISK\_NOT\_VALIDATED  
ERROR\_DISK\_WRITE\_PROTECTED  
ERROR\_FILE\_NOT\_OBJECT  
ERROR\_INVALID\_COMPONENT\_NAME  
ERROR\_INVALID\_LOCK  
ERROR\_INVALID\_RESIDENT\_LIBRARY  
ERROR\_IS\_SOFT\_LINK  
ERROR\_KEY\_NEEDS\_ARG  
ERROR\_LINE\_TOO\_LONG  
ERROR\_LOCK\_COLLISION  
ERROR\_LOCK\_TIMEOUT  
ERROR\_NOT\_A\_DOS\_DISK  
ERROR\_NOT\_EXECUTABLE  
ERROR\_NOT\_IMPLEMENTED  
ERROR\_NO\_DEFAULT\_DIR  
ERROR\_NO\_DISK  
ERROR\_NO\_FREE\_STORE  
ERROR\_NO\_MORE\_ENTRIES  
ERROR\_OBJECT\_EXISTS  
ERROR\_OBJECT\_IN\_USE  
ERROR\_OBJECT\_LINKED  
ERROR\_OBJECT\_NOT\_FOUND  
ERROR\_OBJECT\_TOO\_LARGE  
ERROR\_OBJECT\_WRONG\_TYPE  
ERROR\_READ\_PROTECTED  
ERROR\_RECORD\_NOT\_LOCKED  
ERROR\_RENAME\_ACROSS\_DEVICES  
ERROR\_REQUIRED\_ARG\_MISSING

---

```
ERROR_SEEK_ERROR
ERROR_TASK_TABLE_FULL
ERROR_TOO_MANY_ARGS
ERROR_TOO_MANY_LEVELS
ERROR_UNLOCK_ERROR
ERROR_UNMATCHED_QUOTES
ERROR_WRITE_PROTECTED

EXAMINE_BIT
EXCLUSIVE_LOCK

EXT_ABS
EXT_ABSCOMMON
EXT_ABSREF16
EXT_ABSREF32
EXT_ABSREF8
EXT_COMMON
EXT_DEF
EXT_DEXT16
EXT_DEXT32
EXT_DEXT8
EXT_REF16
EXT_REF32
EXT_REF8
EXT_RELCOMMON
EXT_RELREF16
EXT_RELREF32
EXT_RELREF8
EXT_RES
EXT_SYMB
FAULT_MAX

FIBF_ARCHIVE      -- File protection/attribute bits
FIBF_DELETE
FIBF_EXECUTE
FIBF_GRP_DELETE
FIBF_GRP_EXECUTE
FIBF_GRP_READ
FIBF_GRP_WRITE
FIBF_HIDDEN
FIBF_OTR_DELETE
FIBF_OTR_EXECUTE
FIBF_OTR_READ
FIBF_OTR_WRITE
FIBF_PURE
FIBF_READ
FIBF_SCRIPT
FIBF_WRITE

FORMAT_CDN -- Formats for expressing the Date.
FORMAT_DOS
FORMAT_INT
FORMAT_MAX
FORMAT_USA

GVF_BINARY_VAR
GVF_DONT_NULL_TERM
```

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GVF\_GLOBAL\_ONLY  
GVF\_LOCAL\_ONLY  
GVF\_SAVE\_VAR

HUNKF\_ADVISORY                   -- File Hunk Types  
HUNKF\_CHIP  
HUNKF\_FAST  
HUNK\_ABSRELOC16  
HUNK\_ABSRELOC32  
HUNK\_BREAK  
HUNK\_BSS  
HUNK\_CODE  
HUNK\_DATA  
HUNK\_DEBUG  
HUNK\_DREL16  
HUNK\_DREL32  
HUNK\_DREL8  
HUNK\_END  
HUNK\_EXT  
HUNK\_HEADER  
HUNK\_INDEX  
HUNK\_LIB  
HUNK\_NAME  
HUNK\_OVERLAY  
HUNK\_RELOC16  
HUNK\_RELOC32  
HUNK\_RELOC32SHORT  
HUNK\_RELOC8  
HUNK\_RELRELOC16  
HUNK\_RELRELOC32  
HUNK\_RELRELOC8  
HUNK\_SYMBOL  
HUNK\_UNIT

ID\_DOS\_DISK  
ID\_FASTDIR\_DOS\_DISK  
ID\_FASTDIR\_FFS\_DISK  
ID\_FFS\_DISK  
ID\_INTER\_DOS\_DISK  
ID\_INTER\_FFS\_DISK  
ID\_KICKSTART\_DISK  
ID\_MSDOS\_DISK  
ID\_NOT\_REALLY\_DOS  
ID\_NO\_DISK\_PRESENT  
ID\_UNREADABLE\_DISK  
ID\_VALIDATED  
ID\_VALIDATING  
ID\_WRITE\_PROTECTED

ITEM\_EQUAL  
ITEM\_ERROR  
ITEM\_NOTHING  
ITEM\_QUOTED  
ITEM\_UNQUOTED  
LDF\_ALL  
LDF\_ASSIGNS  
LDF\_DELETE

---

---

LDF\_DEVICES  
LDF\_ENTRY  
LDF\_READ  
LDF\_VOLUMES  
LDF\_WRITE  
LEN\_DATSTRING  
LINK\_HARD  
LINK\_SOFT  
LOCK\_DIFFERENT  
LOCK\_SAME  
LOCK\_SAME\_VOLUME  
LVB\_IGNORE  
LVF\_IGNORE  
LV\_ALIAS  
LV\_VAR  
MAX\_MULTIARGS  
MAX\_TEMPLATE\_ITEMS  
MODE\_NEWFILE  
MODE\_OLDFILE  
MODE\_READWRITE  
NOTIFY\_CLASS  
NOTIFY\_CODE

NP\_Arguments  
NP\_Cli  
NP\_CloseError  
NP\_CloseInput  
NP\_CloseOutput  
NP\_CommandName  
NP\_ConsoleTask  
NP\_CopyVars  
NP\_CurrentDir  
NP\_Entry  
NP\_Error  
NP\_ExitCode  
NP\_ExitData  
NP\_FreeSeglist  
NP\_HomeDir  
NP\_Input  
NP\_Name  
NP\_NotifyOnDeath  
NP\_Output  
NP\_Path  
NP\_Priority  
NP\_Seglist  
NP\_StackSize  
NP\_Synchronous  
NP\_WindowPtr

NRF\_MAGIC  
NRF\_NOTIFY\_INITIAL  
NRF\_SEND\_MESSAGE  
NRF\_SEND\_SIGNAL  
NRF\_WAIT\_REPLY  
NR\_HANDLER\_FLAGS  
OFFSET\_BEGINNING  
OFFSET\_CURRENT

---

---

OFFSET\_END  
PRF\_CLOSEINPUT  
PRF\_CLOSEOUTPUT  
PRF\_FREEARGS  
PRF\_FREECLI  
PRF\_FREECURRDIR  
PRF\_FREESEGLIST  
P\_ANY  
P\_CLASS  
P\_NOT  
P\_NOTCLASS  
P\_NOTEND  
P\_OREND  
P\_ORNEXT  
P\_ORSTART  
P\_REPBEG  
P\_REPEND  
P\_SINGLE  
P\_STOP  
RDAF\_NOALLOC  
RDAF\_NOPROMPT  
RDAF\_STDIN  
REC\_EXCLUSIVE  
REC\_EXCLUSIVE\_IMMED  
REC\_SHARED  
REC\_SHARED\_IMMED  
REPORT\_INSERT  
REPORT\_LOCK  
REPORT\_STREAM  
REPORT\_TASK  
REPORT\_VOLUME  
RETURN\_ERROR  
RETURN\_FAIL  
RETURN\_OK  
RETURN\_WARN  
RNF\_WILDSTAR  
RUN\_EXECUTE  
RUN\_SYSTEM  
RUN\_SYSTEM\_ASYNCH  
SHARED\_LOCK  
SIGBREAKF\_CTRL\_C  
SIGBREAKF\_CTRL\_D  
SIGBREAKF\_CTRL\_E  
SIGBREAKF\_CTRL\_F  
ST\_FILE  
ST\_LINKDIR  
ST\_LINKFILE  
ST\_PIPEFILE  
ST\_ROOT  
ST\_SOFTLINK  
ST\_USERDIR  
SYS\_Asynch  
SYS\_CustomShell  
SYS\_Input  
SYS\_Output  
SYS\_UserShell  
TICKS\_PER\_SECOND

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See Also,

UndefinedObject

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