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Routine to Parse Options in Args Array

(Originally posted by [Timur Safin](#) on Intersystems CODE, 3/2/15) This code snippet is a routine that parses options saved in an arguments array. The subroutine "test" runs the code:

```
ROUTINE timur.getOptionsArgs
/// Let assume we want to parse options saved in args array in the form
///   args=5
///   args(1)="/o"
///   args(2)="all"
///   args(3)="/verbose"
///   args(4)="the"
///   args(5)="rest"
/// we want to get handled boolean options /o and /v (or -o and -v in unix-style)
///   set option = 0, verbose = 0
/// we call GetOptions function this way:
///   GetOptions(.args,"-o",.option,"/verbose|/v",.verbose,"/include:",.include)
/// NB! This example is handling only boolean options
#define OptionBoolean 1
#define OptionString 2
/// f.k.a. "getOptions"
test(&args,&fmtDest...) public {
    #dim known ; known options

    // 1. scan options
    for i=1:2:$get(fmtDest) {
        #dim opts As %String = $get(fmtDest(i))
        continue:opts=""
        for j=1:1:$length(opts,"|") {
            #dim opt As %String = $zstrip($piece(opts,"|",j), "<>", "-/")
            #dim lastC As %String = $e(opt,*)
            #dim optType As %Integer = $case(lastC, ":":$$$$OptionString, :$$$OptionBo
olean)
            set opt = $zstrip(opt,"<>",":")
            set known(opt) = $lb(optType, i + 1) ; remember option type and destinati
on argument pointer
        }
    }

    #dim argsN = "" ; new args without processed known options
    // 2. process passed args while creating new modified args (without known /option
s)
    for i=1:1:$get(args) {
        #dim arg As %String = $get(args(i))
        #dim isOption As %Boolean = $case($extract(arg,1),"("/:1, "-":1, :0)

        if isOption {
```

```
#dim optInfo = $get(known($zstrip(arg, "<>", "-/:")))

if $length(optInfo)>0 {
    #dim type As %Integer = $li(optInfo,1)
    #dim index As %Integer = $li(optInfo,2)
    if type=$$$$OptionBoolean {
        set fmtDest(index) = 1
    } else {
        set fmtDest(index) = $get(args($i(i)))
    }
} else {
    return i ; unknown /option - bails out
}
} else {
    set argsN($i(argsN)) = arg
}

}

// 3. save not consumed arguments back to args array
if $get(argsN)<$get(args) {
    kill args merge args = argsN
}
quit 0
}
```

Here's a link to the code on [GitHub](#)

#Code Snippet #InterSystems IRIS #ObjectScript #Caché

Source URL:<https://community.intersystems.com/post/routine-parse-options-args-array>