
Question

[Tony Alexander](#) · Nov 22, 2021

How to lists all files in a given folder (and sub-folders if needed)

Hi Community,

I recently needed to interrogate some folders/sub-folders to retrieve filenames using cache object script(COS) and I implemented it in the following way.

```
ClassMethod ListDir(
    path = "",
    wildchar = "*",
    recursive As %String(VALUELIST="y,n") = "y",
    ByRef dirlist)
{
    i path'="" {
        i ##class(%File).DirectoryExists(path) {

            s rs=##class(%ResultSet).%New("%File:FileSet")
            s sc=rs.Execute(path,wildchar,"",1)
            while(rs.Next()) {
                s name=rs.Data("Name")
                s type=rs.Data("Type")

                // if sub-folder loop once more
                i type="D",recursive="y" {

                    d ..ListDir(name,wildchar,"y",.dirlist)
                }
                // if file add to list
                i type="F" {

                    s dirlist($i(dirlist))=name
                }
            }
            d rs.Close()
        }
    }
}
```

The code passes the output as an array (dirlist). Setting the recursive flag to "y" will loop through individual sub-folders and providing a value for wild-char will restrict the result to your desired extension. Pretty sure there's probably a better way to do this, but this worked for me and results are returned fairly quickly. I hope you find it useful.

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Product version: Caché 2018.1

\$ZV: Cache for Windows (x86-64) 2018.1.1 (Build 312U)

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