| Legenda | Comment |
|---|---|
| New in Moon# | Function has been introduced in Moon# and is not present in Lua 5.2 |
| Done | Implemented completely |
| Done, with differences | Implemented, but has serious differences from the Lua version (detailed in comments). |
| Not done, issues | Not completed yet. |
| Unsupported | Unsupported and likely support will be limited or non-existent also in the future |
| Not done yet | Not even started. |

| API | Yield | Comment |
|---|---|---|
| _G | - | |
| _VERSION | - | |
| _MOONSHARP | - | Reports the Moon# version, plus tells the script that it's running on Moon# |
| | | |
| assert | - | |
| collectgarbage | - | Implemented as useless stub |
| dofile | YES | |
| error | - | |
| getmetatable | - | |
| ipairs | YES | |
| load | NO | Binary not supported as input. A function as input cannot yield. |
| loadfile | - | No binary files. stdin as input is not supported. Inner workings are a little different to adapt to Moon# architecture. |
| next | - | |
| pairs | YES | |
| pcall | YES | |
| print | NO | __tostring handlers cannot yield when called from print |
| rawequal | - | |
| rawget | - | |
| rawlen | - | |
| rawset | - | |
| require | YES | Inner workings are a little different to adapt to Moon# architecture. |
| select | - | |
| setmetatable | - | |

| | | |
|---|---|---|
| tonumber | - | Only 2,8,10 and 16 are supported as base value. |
| tostring | YES | |
| type | - | |
| xpcall | - | Currently implemented as a pcall |
| | | |
| bit32.arshift | | |
| bit32.band | | |
| bit32.bnot | | |
| bit32.bor | | |
| bit32.btest | | |
| bit32.bxor | | |
| bit32.extract | | |
| bit32.lrotate | | |
| bit32.lshift | | |
| bit32.replace | | |
| bit32.rrotate | | |
| bit32.rshift | | |
| | | |
| coroutine.create | | |
| coroutine.resume | | |
| coroutine.running | | |
| coroutine.status | | |
| coroutine.wrap | | |
| coroutine.yield | | |
| | | |
| debug.debug | | Function is heavily dependent on implementation details. |
| debug.getuservalue | | Function is heavily dependent on implementation details. |
| debug.gethook | | Function is heavily dependent on implementation details. |
| debug.getinfo | | Function is heavily dependent on implementation details. |
| debug.getlocal | | Function is heavily dependent on implementation details. |
| debug.getmetatable | | Function is heavily dependent on implementation details. |
| debug.getregistry | | Function is heavily dependent on implementation details. |
| debug.getupvalue | | Function is heavily dependent on implementation details. |

| | | |
|---|---|---|
| debug.setuservalue | | Function is heavily dependent on implementation details. |
| debug.sethook | | Function is heavily dependent on implementation details. |
| debug.setlocal | | Function is heavily dependent on implementation details. |
| debug.setmetatable | | Function is heavily dependent on implementation details. |
| debug.setupvalue | | Function is heavily dependent on implementation details. |
| debug.traceback | | Function is heavily dependent on implementation details. |
| debug.upvalueid | | Function is heavily dependent on implementation details. |
| debug.upvaluejoin | | Function is heavily dependent on implementation details. |
| | | |
| dynamic.eval | | Evaluates the code passed as a parameter dynamically. All accesses are raw,function calls will raise an error. |
| dynamic.prepare | | Prepares an expression for faster evaluation with dynamic.eval. |
| | | |
| file:close | | This can be implemented by hosting app if need be. |
| file:flush | | This can be implemented by hosting app if need be. |
| file:lines | | This can be implemented by hosting app if need be. |
| file:read | | This can be implemented by hosting app if need be. |
| file:seek | | This can be implemented by hosting app if need be. |
| file:setvbuf | | This can be implemented by hosting app if need be. |
| file:write | | This can be implemented by hosting app if need be. |
| | | |
| io.close | | This can be implemented by hosting app if need be. |
| io.flush | | This can be implemented by hosting app if need be. |
| io.input | | This can be implemented by hosting app if need be. |
| io.lines | | This can be implemented by hosting app if need be. |
| io.open | | This can be implemented by hosting app if need be. |
| io.output | | This can be implemented by hosting app if need be. |
| io.popen | | This can be implemented by hosting app if need be. |
| io.read | | This can be implemented by hosting app if need be. |
| io.stderr | | This can be implemented by hosting app if need be. |
| io.stdin | | This can be implemented by hosting app if need be. |
| io.stdout | | This can be implemented by hosting app if need be. |
| io.tmpfile | | This can be implemented by hosting app if need be. |
| io.type | | This can be implemented by hosting app if need be. |

| | | |
|---|---|---|
| io.write | | This can be implemented by hosting app if need be. |
| | | |
| math.abs | - | |
| math.acos | - | |
| math.asin | - | |
| math.atan | - | |
| math.atan2 | - | |
| math.ceil | - | |
| math.cos | - | |
| math.cosh | - | |
| math.deg | - | |
| math.exp | - | |
| math.floor | - | |
| math.fmod | - | |
| math.frexp | - | http://stackoverflow.com/questions/389993/extracting-mantissa-and-exponent-from-double-in-c-sharp |
| math.huge | - | |
| math.ldexp | - | |
| math.log | - | |
| math.max | - | |
| math.min | - | |
| math.modf | - | |
| math.pi | - | |
| math.pow | - | |
| math.rad | - | |
| math.random | - | Minor differences in accepted inputs (Moon# is more tolerant) |
| math.randomseed | - | |
| math.sin | - | |
| math.sinh | - | |
| math.sqrt | - | |
| math.tan | - | |
| math.tanh | - | |
| | | |
| os.clock | | This can be implemented by hosting app if need be. |

| | | |
|---|---|---|
| os.date | | This can be implemented by hosting app if need be. |
| os.difftime | | This can be implemented by hosting app if need be. |
| os.execute | | This can be implemented by hosting app if need be. |
| os.exit | | This can be implemented by hosting app if need be. |
| os.getenv | | This can be implemented by hosting app if need be. |
| os.remove | | This can be implemented by hosting app if need be. |
| os.rename | | This can be implemented by hosting app if need be. |
| os.setlocale | | This can be implemented by hosting app if need be. |
| os.time | | This can be implemented by hosting app if need be. |
| os.tmpname | | This can be implemented by hosting app if need be. |
| | | |
| package.config | | |
| package.cpath | | |
| package.loaded | | |
| package.loadlib | | |
| package.path | | |
| package.preload | | |
| package.searchers | | |
| package.searchpath | | |
| | | |
| string.byte | | Character codes are cropped to 0-255. Use string.unicode to have the unicode code-point. |
| string.char | | Values > 255 are silently supported (as unicode codepoints) |
| string.dump | | If possible, it will be implemented returning the original source code! |
| string.find | | Implementation taken from KopiLua. Patterns cannot contain \0. Use %z instead. |
| string.format | **NO** | __tostring metamethod cannot yield. Implementation taken from KopiLua. |
| string.gmatch | | Implementation taken from KopiLua. Patterns cannot contain \0. Use %z instead. |
| string.gsub | **NO** | Callback function (if used) cannot yield.Implementation taken from KopiLua. Patterns cannot contain \0. Use %z instead. |
| string.len | | |
| string.lower | | |
| string.match | | Implementation taken from KopiLua. Patterns cannot contain \0. Use %z instead. |
| string.rep | | |
| string.reverse | | |
| string.sub | | |

| | | |
|---|---|---|
| string.unicode | | Works just as "string.byte" would do, but returns the unicode code-point without truncation. |
| string.upper | | |
| | | |
| table.concat | **NO** | __len cannot yield |
| table.insert | **NO** | __len cannot yield |
| table.pack | | |
| table.remove | **NO** | __len cannot yield |
| table.sort | **NO** | __lt, __len and the comparison function cannot yield |
| table.unpack | | |