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Lua source code for the Lua/APR binding.
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```
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Last Change: January 8, 2011
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Homepage: http://peterodding.com/code/lua/apr/
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License: MIT
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Version: 0.9.29
```

```
This Lua script is executed on require("apr"), loads the binary module using  
require("apr.core"), defines several library functions implemented on top of  
the binary module and returns the module table as the result of require().
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```
local apr = require 'apr.core'
```

```
apr._VERSION = '0.9.29'
```

```
-- apr.md5(input [, binary]) -> digest {{{1
```

```
--  
-- Calculate the [MD5] [md5] message digest of the string @input. On success  
-- the digest is returned as a string of 32 hexadecimal characters, or a string  
-- of 16 bytes if @binary evaluates to true. Otherwise a nil followed by an  
-- error message is returned.  
--
```

```
-- *This function is binary safe.*
```

```
--
```

```
-- Part of the "Cryptography routines" module.
```

```
function apr.md5(input, binary)
```

```
    assert(type(input) == 'string', "bad argument #1 to apr.md5() (string expected)")
```

```
    local context, digest, status, errmsg, errcode
```

```
    context, errmsg, errcode = apr.md5_init()
```

```
    if context then
```

```
        status, errmsg, errcode = context:update(input)
```

```
        if status then
```

```
            digest, errmsg, errcode = context:digest(binary)
```

```
            if digest then return digest end
```

```
        end
```

```
    end
```

```
    return nil, errmsg, errcode
```

```
end
```

```
-- apr.sha1(input [, binary]) -> digest {{{1
```

```
--  
-- Calculate the [SHA1] [sha1] message digest of the string @input. On success  
-- the digest is returned as a string of 40 hexadecimal characters, or a string  
-- of 20 bytes if @binary evaluates to true. Otherwise a nil followed by an  
-- error message is returned.  
--
```

```
-- *This function is binary safe.*
```

```
--
```

```
-- Part of the "Cryptography routines" module.
```

```
function apr.sha1(input, binary)
```

```
    assert(type(input) == 'string', "bad argument #1 to apr.sha1() (string expected)")
```

```
    local context, digest, status, errmsg, errcode
```

```
    context, errmsg, errcode = apr.sha1_init()
```

```
    if context then
```

```
        status, errmsg, errcode = context:update(input)
```

```

    if status then
        digest, errmsg, errcode = context:digest(binary)
        if digest then return digest end
    end
end
return nil, errmsg, errcode
end

-- apr.filepath_which(program [, find_all]) -> pathname {{{1
--
-- Find the full pathname of @program by searching the directories in the
-- [$PATH] [path_var] environment variable and return the pathname of the
-- first program that's found. If @find_all is true then a list with the
-- pathnames of all matching programs is returned instead.
--
-- [path_var]: http://en.wikipedia.org/wiki/PATH\_variable
--
-- Part of the "File path manipulation" module.

function apr.filepath_which(program, find_all)
    local split = apr.filepath_list_split
    local is_windows = apr.platform_get() == 'WIN32'
    local extensions = is_windows and split(apr.env_get 'PATHEXT')
    local results = find_all and {}
    for _, directory in ipairs(split(apr.env_get 'PATH')) do
        local candidate = apr.filepath_merge(directory, program)
        if apr.stat(candidate, 'type') == 'file' then
            -- TODO if not is_windows check executable bits
            if not find_all then return candidate end
            results[#results + 1] = candidate
        end
        if is_windows and #extensions >= 1 then
            for _, extension in ipairs(extensions) do
                candidate = apr.filepath_merge(directory, program .. '.' .. extension)
                if apr.stat(candidate, 'type') == 'file' then
                    if not find_all then return candidate end
                    results[#results + 1] = candidate
                end
            end
        end
    end
    return results
end

-- apr.glob(pattern [, ignorecase]) -> iterator {{{1
--
-- Split @pattern into a directory path and a filename pattern and return an
-- iterator which returns all filenames in the directory that match the
-- extracted filename pattern. The 'apr.fnmatch()' function is used for
-- filename matching so the documentation there applies.
--
-- *This function is not binary safe.*
--
-- Part of the "Filename matching" module.

function apr.glob(pattern, ignorecase)
    local fnmatch = apr.fnmatch
    local yield = coroutine.yield
    local directory, pattern = apr.filepath_parent(pattern)
    local handle = assert(apr.dir_open(directory))
    return coroutine.wrap(function()

```

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    for path, name in handle:entries('path', 'name') do
        if fnmatch(pattern, name, ignorecase) then
            yield(path)
        end
    end
    handle:close()
end)
end

-- apr.uri_encode(string) -> encoded {{{1
--
-- Encode all unsafe bytes in @string using [percent-encoding] [percenc] so
-- that the string can be embedded in a [URI] [uri] query string.
--
-- [percenc]: http://en.wikipedia.org/wiki/Percent-encoding
--
-- Part of the "Uniform resource identifier parsing" module.

function apr.uri_encode(s)
    local byte = string.byte
    local format = string.format
    return (s:gsub('[^A-Za-z0-9_.-]', function(c)
        if c == ' ' then
            return '+'
        else
            return format('%%%02x', byte(c))
        end
    end))
end

-- apr.uri_decode(encoded) -> string {{{1
--
-- Decode all [percent-encoded] [percenc] bytes in the string @encoded.
--
-- [percenc]: http://en.wikipedia.org/wiki/Percent-encoding
--
-- Part of the "Uniform resource identifier parsing" module.

function apr.uri_decode(s)
    local char = string.char
    local tonumber = tonumber
    s = s:gsub('+', ' ')
    return (s:gsub('%%%02x?', function(code)
        return char(tonumber(code, 16))
    end))
end

-- }}}1

return apr

-- vim: ts=2 sw=2 et tw=79 fen fdm=marker

```