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Rocky Enterprise Linux 9.2 Manual Pages on command 'life_cycle-digest.7ssl'

\$ man life_cycle-digest.7ssl

LIFE_CYCLE-DIGEST(7SSL) OpenSSL LIFE_CYCLE-DIGEST(7SSL)

NAME

life_cycle-digest - The digest algorithm life-cycle

DESCRIPTION

All message digests (MDs) go through a number of stages in their life-cycle:

start

This state represents the MD before it has been allocated. It is the starting state for any life-cycle transitions.

newed

This state represents the MD after it has been allocated.

initialised

This state represents the MD when it is set up and capable of processing input.

updated

This state represents the MD when it is set up and capable of processing additional input or generating output.

finalised

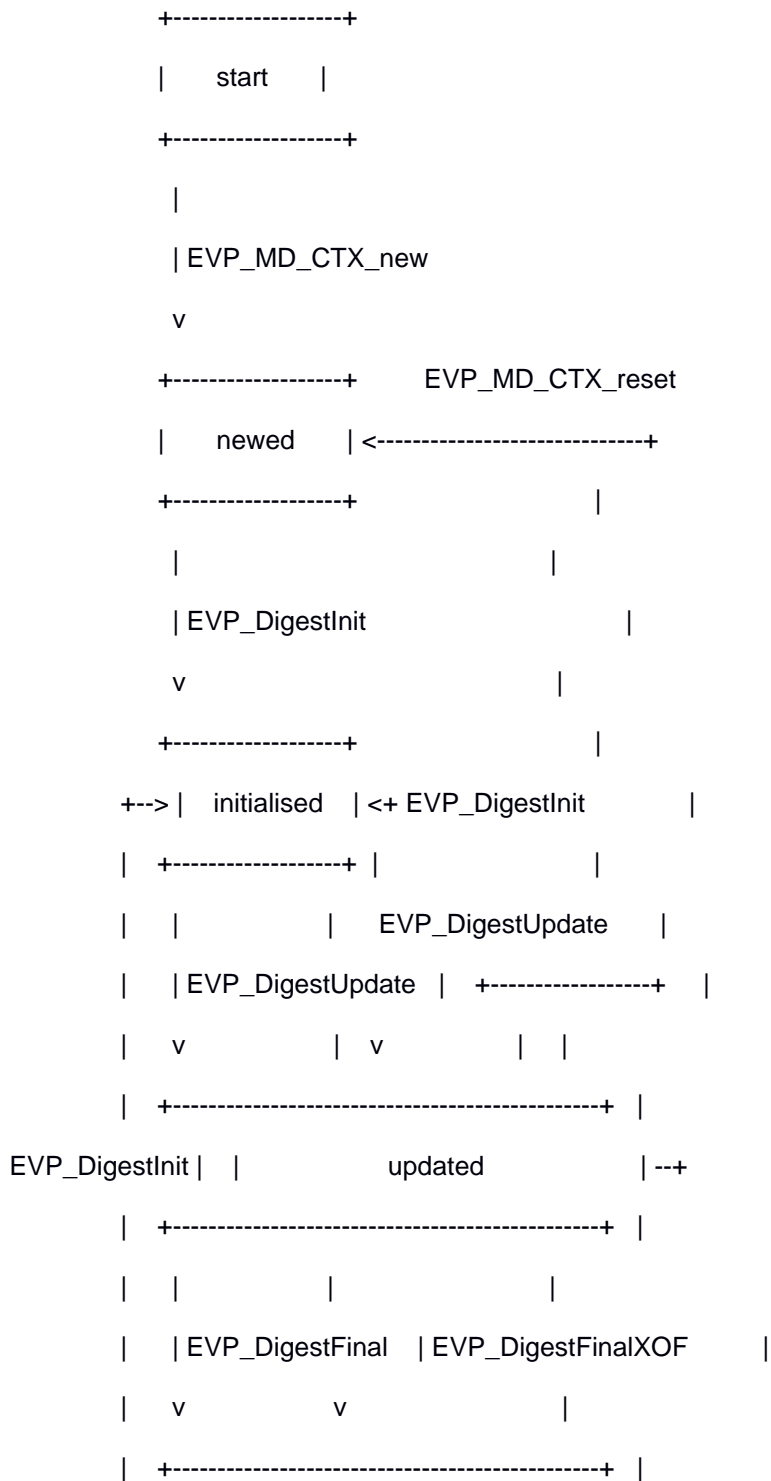
This state represents the MD when it has generated output.

freed

This state is entered when the MD is freed. It is the terminal state for all life-cycle transitions.

State Transition Diagram

The usual life-cycle of a MD is illustrated:





Formal State Transitions

This section defines all of the legal state transitions. This is the canonical list.

Function Call	-----	Current State	-----			
	start	newed	initialised	updated	finaled	freed
EVP_MD_CTX_new		newed				
EVP_DigestInit		initialised	initialised	initialised	initialised	
EVP_DigestUpdate			updated	updated		
EVP_DigestFinal				finaled		
EVP_DigestFinalXOF				finaled		
EVP_MD_CTX_free		freed	freed	freed	freed	freed
EVP_MD_CTX_reset			newed	newed	newed	newed
EVP_MD_CTX_get_params			newed	initialised	updated	
EVP_MD_CTX_set_params			newed	initialised	updated	
EVP_MD_CTX_gettable_params			newed	initialised	updated	
EVP_MD_CTX_settable_params			newed	initialised	updated	

NOTES

At some point the EVP layer will begin enforcing the transitions described herein.

SEE ALSO

provider-digest(7), EVP_DigestInit(3)

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