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Rocky Enterprise Linux 9.2 Manual Pages on command 'life_cycle-digest.7oss1'

\$ man life_cycle-digest.7oss1

LIFE_CYCLE-DIGEST(7oss1) OpenSSL LIFE_CYCLE-DIGEST(7oss1)

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.

finalized

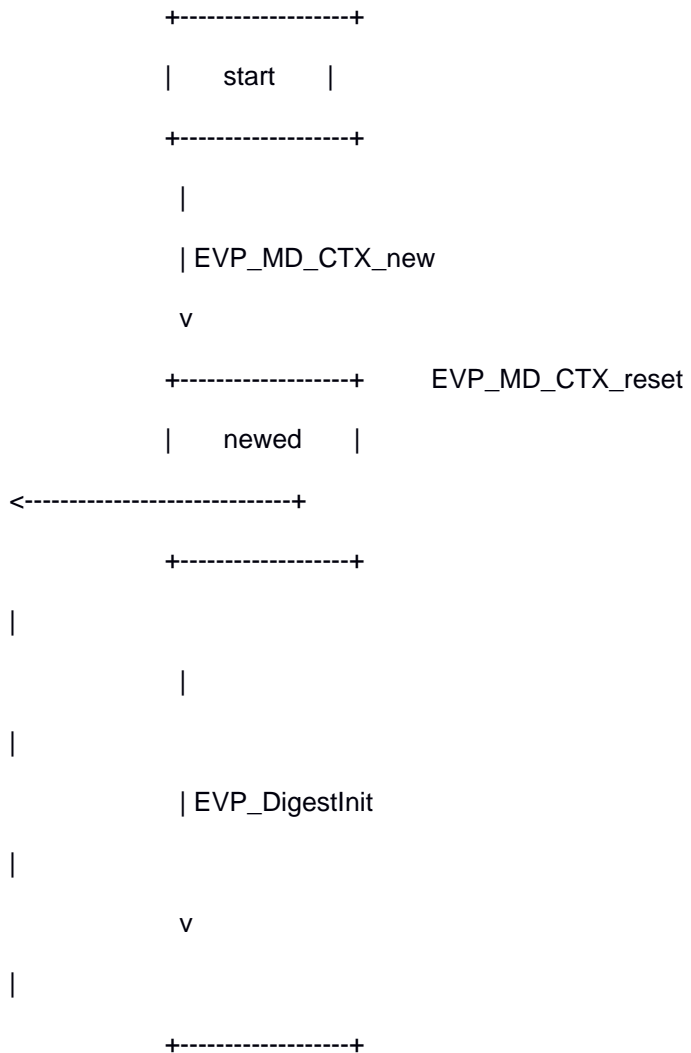
This state represents the MD when it has generated output.

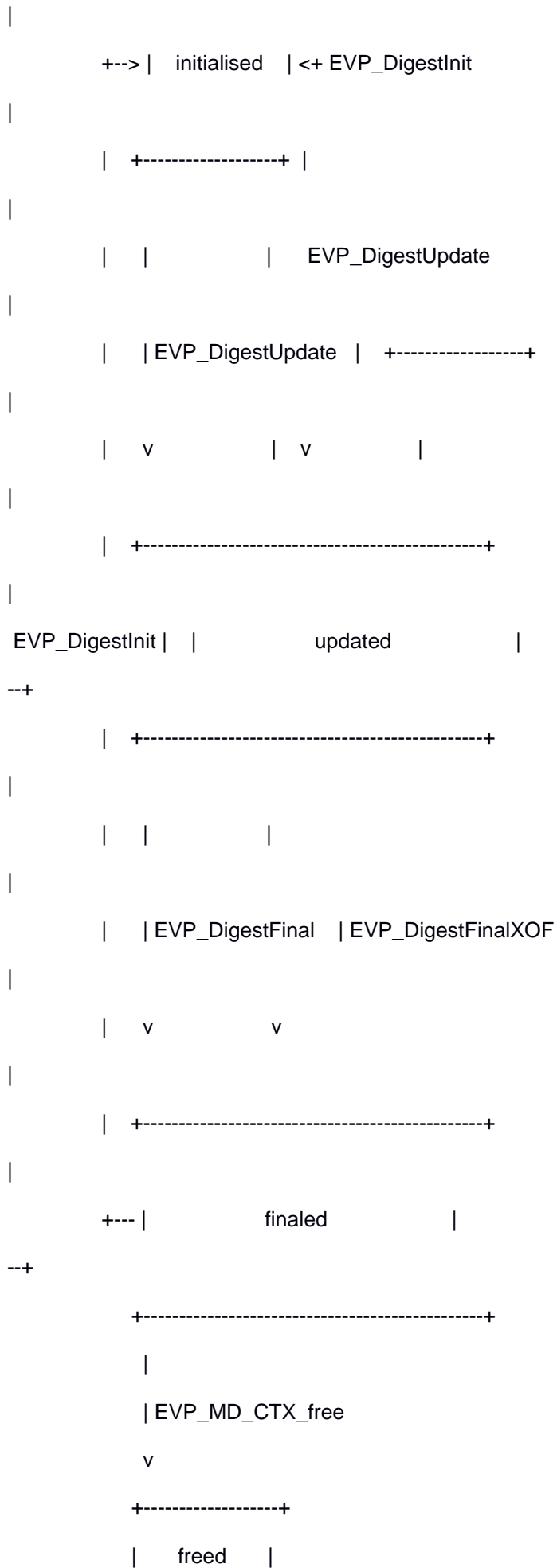
freed

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:





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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	
finalised	freed				
EVP_MD_CTX_new		newed			
EVP_DigestInit		initialised	initialised	initialised	
initialised					
EVP_DigestUpdate			updated	updated	
EVP_DigestFinal				finalised	
EVP_DigestFinalXOF				finalised	
EVP_MD_CTX_free	freed	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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