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Rocky Enterprise Linux 9.2 Manual Pages on command 'life_cycle-kdf.7ossil'

\$ man life_cycle-kdf.7ossil

LIFE_CYCLE-KDF(7ossil) OpenSSL LIFE_CYCLE-KDF(7ossil)

NAME

life_cycle-kdf - The KDF algorithm life-cycle

DESCRIPTION

All key derivation functions (KDFs) and pseudo random functions (PRFs) go through a number of stages in their life-cycle:

start

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

newed

This state represents the KDF/PRF after it has been allocated.

deriving

This state represents the KDF/PRF when it is set up and capable of

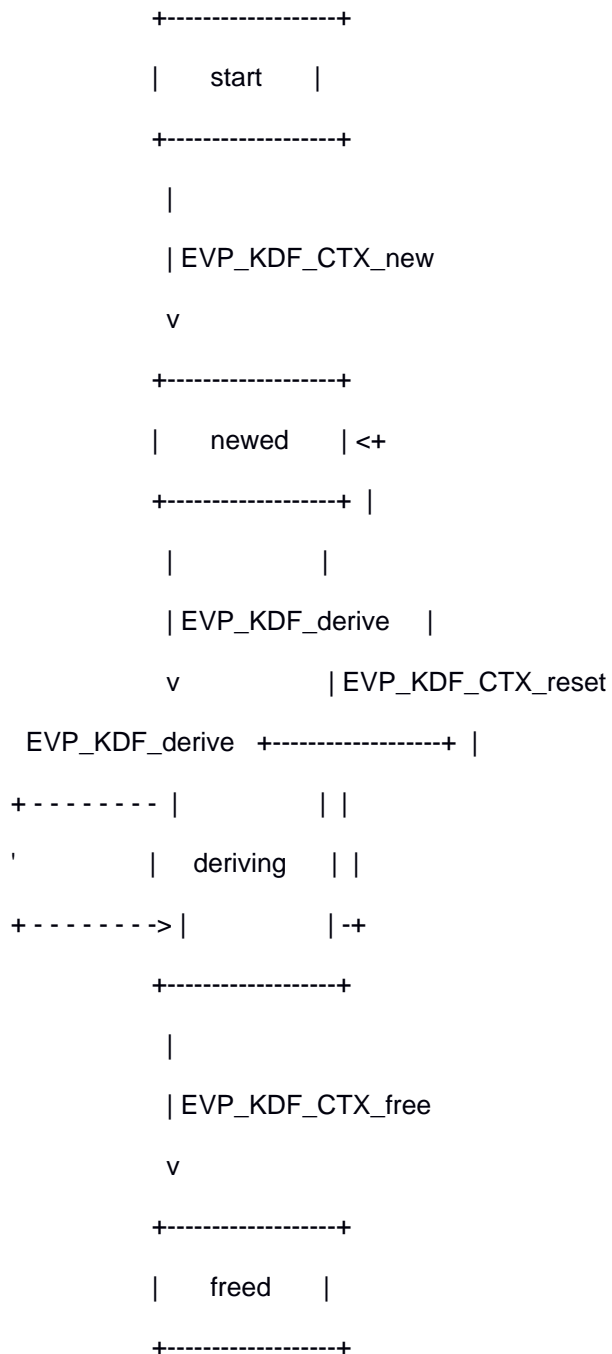
generating output.

freed

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

State Transition Diagram

The usual life-cycle of a KDF/PRF is illustrated:



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

Function Call	-----	Current State		
	-----		start	newed
			deriving	
freed				
EVP_KDF_CTX_new		newed		
EVP_KDF_derive		deriving	deriving	
EVP_KDF_CTX_free		freed	freed	freed
EVP_KDF_CTX_reset		newed	newed	
EVP_KDF_CTX_get_params		newed	deriving	
EVP_KDF_CTX_set_params		newed	deriving	
EVP_KDF_CTX_gettable_params		newed	deriving	
EVP_KDF_CTX_settable_params		newed	deriving	

NOTES

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

SEE ALSO

provider-kdf(7), EVP_KDF(3).

HISTORY

The provider KDF interface was introduced in OpenSSL 3.0.

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