hesiod, hesiod_init, hesiod_resolve, hesiod_free_list, hesiod_to_bind, hesiod_end − Hesiod name server interface library

This family of functions allows you to perform lookups of Hesiod information, which is stored as text records in the Domain Name Service. To perform lookups, you must first initialize a an opaque object which stores information used internally by the library between calls. initializes a context, storing a pointer to the context in the location pointed to by the argument. frees the resources used by a context. is the primary interface to the library. If successful, it returns a list of one or more strings giving the records matching and The last element of the list is followed by a NULL pointer. It is the caller's responsibility to call to free the resources used by the returned list. converts and into the DNS name used by It is the caller's responsibility to free the returned string using If successful, returns 0; otherwise it returns −1 and sets to indicate the error. On failure, and return NULL and set the global variable to indicate the error. If the environment variable is set, it will override the domain in the Hesiod configuration file. If the environment variable is set, it specifies the location of the Hesiod configuration file. ‘Hesiod - Project Athena Technical Plan -- Name Service’, named(8), hesiod.conf(5) Hesiod calls may fail because of: Insufficient memory was available to carry out the requested operation. failed because the Hesiod configuration file was invalid. failed because no name server could be contacted to answer the query. failed because the query or response was too big to fit into the packet buffers. failed because the name server had no text records matching and or failed because the argument had a domain extension which could not be resolved with type ‘‘rhs-extension’’ in the local Hesiod domain.

Steve Dyer, IBM/Project Athena

Greg Hudson, MIT Team Athena

 The strings corresponding to the values set by the Hesiod functions are not particularly indicative of what went wrong, especially for and