## ngx\_hash.h Documentation:

```
Macros Defined:
#define NGX_HASH_SMALL
                                    1
                                     2
#define NGX_HASH_LARGE
#define NGX HASH LARGE ASIZE
                                    16384
#define NGX_HASH_LARGE_HSIZE
                                    10007
#define NGX_HASH_WILDCARD_KEY 1
#define NGX_HASH_READONLY_KEY 2
#define ngx_hash(key, c) ((ngx_uint_t) key * 31 + c)
Type Definitions:
typedef struct {
       void
                   *value;
      u short
                    len;
      u_char
                    name[1];
} ngx_hash_elt_t;
typedef struct {
      ngx_hash_elt_t **buckets;
      ngx_uint_t
                     size;
} ngx_hash_t;
typedef struct {
      ngx_hash_t
                   hash;
      void
                   *value;
} ngx_hash_wildcard_t;
typedef struct {
      ngx_str_t
                   key;
                   key_hash;
      ngx_uint_t
      void
                   *value;
} ngx_hash_key_t;
typedef ngx_uint_t (*ngx_hash_key_pt) (u_char *data, size_t len);
typedef struct {
      ngx_hash_t
                           hash;
      ngx_hash_wildcard_t *wc_head;
       ngx_hash_wildcard_t *wc_tail;
} ngx_hash_combined_t;
```

```
typedef struct {
                           *hash;
         ngx_hash_t
         ngx_hash_key_pt
                           key;
         ngx_uint_t
                           max_size;
         ngx_uint_t
                           bucket_size;
         char
                           *name;
         ngx_pool_t
                           *pool;
         ngx_pool_t
                           *temp_pool;
} ngx_hash_init_t;
typedef struct {
         ngx_uint_t
                        hsize;
         ngx_pool_t
                        *pool;
         ngx_pool_t
                        *temp_pool;
         ngx_array_t
                         keys;
                        *keys_hash;
         ngx_array_t
                        dns_wc_head;
         ngx_array_t
                        *dns_wc_head_hash;
         ngx_array_t
                        dns_wc_tail;
         ngx_array_t
                        *dns_wc_tail_hash;
         ngx_array_t
} ngx_hash_keys_arrays_t;
typedef struct {
         ngx_uint_t
                      hash;
         ngx_str_t
                      key;
         ngx_str_t
                      value;
                      *lowcase_key;
         u_char
} ngx_table_elt_t;
Functions Defined:
void *ngx_hash_find( ngx_hash_t *hash,
                      ngx_uint_t key,
                      u_char
                                 *name,
                      size_t
                                 len
                   )
void *ngx_hash_find_wc_head( ngx_hash_wildcard_t *hwc,
                              u_char
                                                    *name,
                              size_t
                                                    len
                            )
```

```
void *ngx_hash_find_wc_tail( ngx_hash_wildcard_t *hwc,
                             u_char
                                                  *name,
                             size_t
                                                   len
                           )
void *ngx_hash_find_combined( ngx_hash_combined_t *hash,
                                ngx_uint_t
                                                        key,
                                u_char
                                                       *name,
                                size_t
                                                        len
                               )
ngx_int_t ngx_hash_init( ngx_hash_init_t *hinit,
                        ngx_hash_key_t *names,
                        ngx_uint_t
                                         nelts
                      )
ngx_int_t ngx_hash_wildcard_init( ngx_hash_init_t *hinit,
                                  ngx_hash_key_t *names,
                                  ngx_uint_t
                                                  nelts
                                )
ngx_uint_t ngx_hash_key( u_char *data,
                          size_t len
                        )
ngx_uint_t ngx_hash_key_lc( u_char *data,
                            size_t len
                           )
ngx_uint_t ngx_hash_strlow( u_char *dst,
                            u_char *src,
                            size_t n
                          )
ngx_int_t ngx_hash_keys_array_init( ngx_hash_keys_arrays_t *ha,
                                    ngx_uint_t
                                                           type
ngx_int_t ngx_hash_add_key( ngx_hash_keys_arrays_t *ha,
                             ngx_str_t
                                                     *key,
                                                     *value,
                             void
                             ngx_uint_t
                                                     flags
```

## **Include Dependency Graph:**

