ngx_resolver.h Documentation:

Macros Defined:

```
#define NGX_RESOLVE_A
                             1
#define NGX_RESOLVE_CNAME
#define NGX_RESOLVE_PTR
                            12
                            15
#define NGX_RESOLVE_MX
                            16
#define NGX_RESOLVE_TXT
#define NGX_RESOLVE_AAAA
                            28
#define NGX RESOLVE DNAME
                            39
#define NGX_RESOLVE_FORMERR 1
#define NGX_RESOLVE_SERVFAIL 2
#define NGX RESOLVE NXDOMAIN 3
#define NGX_RESOLVE_NOTIMP 4
#define NGX_RESOLVE_REFUSED 5
#define NGX_RESOLVE_TIMEDOUT NGX_ETIMEDOUT
#define NGX_NO_RESOLVER
                           (void *) -1
#define NGX_RESOLVER_MAX_RECURSION
                                     50
```

Data Structures Defined:

```
typedef struct {
  ngx_connection_t *connection;
  struct sockaddr
                     *sockaddr;
  socklen_t
                     socklen;
  ngx_str_t
                      server;
  ngx_log_t
                      log;
} ngx_udp_connection_t;
struct ngx_resolver_ctx_s {
  ngx_resolver_ctx_t
                      *next;
  ngx_resolver_t
                       *resolver;
  ngx_udp_connection_t *udp_connection;
  ngx_int_t
                 ident;
                  state;
  ngx_int_t
                  name;
  ngx_str_t
  ngx_uint_t
                    naddrs;
  ngx_addr_t
                    *addrs;
  ngx_addr_t
                    addr;
  struct sockaddr_in
                       sin;
  ngx_resolver_handler_pt handler;
                  *data;
  void
                timeout;
  ngx_msec_t
  ngx_uint_t
                  quick;
  ngx_uint_t
                  recursion;
                  *event;
  ngx_event_t
};
typedef struct {
  ngx_rbtree_node_t
                        node;
  ngx_queue_t
                       queue;
                   *name;
  u_char
  #if (NGX_HAVE_INET6)
    struct in6_addr
                         addr6;
  #endif
  u short
                    nlen;
  u_short
                    qlen;
                    *query;
  u_char
```

#if (NGX_HAVE_INET6)

```
*query6;
    u_char
  #endif
  union {
    in_addr_t
                    addr;
    in_addr_t
                    *addrs;
    u char
                   *cname;
  } u;
  u_char
                    code;
  u_short
                    naddrs;
  u_short
                    cnlen;
  #if (NGX_HAVE_INET6)
    union {
                        addr6:
      struct in6_addr
      struct in6_addr
                        *addrs6;
    } u6;
  u short
                    naddrs6;
  #endif
  time_t
                     expire;
  time_t
                     valid;
  uint32 t
                     ttl;
                       *waiting;
  ngx_resolver_ctx_t
} ngx_resolver_node_t;
.....
typedef struct {
  ngx_event_t
                   *event;
  void
                  *dummy;
                   *log;
  ngx_log_t
  ngx_int_t
                   ident;
  ngx_array_t
                   udp_connections;
                   last_connection;
  ngx_uint_t
  ngx_rbtree_t
                 name rbtree;
  ngx_rbtree_node_t name_sentinel;
  ngx_rbtree_t
                      addr_rbtree;
  ngx_rbtree_node_t addr_sentinel;
                     name_resend_queue;
  ngx_queue_t
  ngx_queue_t
                      addr_resend_queue;
  ngx_queue_t
                      name_expire_queue;
                      addr_expire_queue;
  ngx_queue_t
 #if (NGX_HAVE_INET6)
    ngx_uint_t
                         ipv6;
    ngx_rbtree_t
                        addr6_rbtree;
    ngx_rbtree_node_t
                         addr6_sentinel;
                         addr6_resend_queue;
    ngx_queue_t
    ngx_queue_t
                         addr6_expire_queue;
  #endif
  time t
                    resend_timeout;
  time_t
                    expire;
  time_t
                    valid;
                    log_level;
  ngx_uint_t
} ngx_resolver_t;
Type Definitions:
typedef struct ngx_resolver_ctx_s ngx_resolver_ctx_t;
typedef void (*ngx_resolver_handler_pt)(ngx_resolver_ctx_t *ctx);
```

Functions Declared:

```
ngx_resolver_t *ngx_resolver_create( ngx_conf_t *cf, ngx_str_t *names, ngx_uint_t n );

ngx_resolver_ctx_t *ngx_resolve_start( ngx_resolver_t *r, ngx_resolver_ctx_t *temp );

ngx_int_t ngx_resolve_name( ngx_resolver_ctx_t *ctx);

void ngx_resolve_name_done(ngx_resolver_ctx_t *ctx);

ngx_int_t ngx_resolve_addr(ngx_resolver_ctx_t *ctx);

void ngx_resolve_addr_done(ngx_resolver_ctx_t *ctx);

char *ngx_resolver_strerror(ngx_int_t err);
```

Include Dependency Graph:

