
Subject: [PATCH 2.6.25 2/3] ipv4: unify assignment of fi to fib_result

Posted by [den](#) on Fri, 07 Dec 2007 16:09:21 GMT

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ipv4: unify assignment of fi to fib_result

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net/ipv4/fib_hash.c | 19 ++++-----

net/ipv4/fib_lookup.h | 10 ++++++++

net/ipv4/fib_trie.c | 19 ++++-----

3 files changed, 18 insertions(+), 30 deletions(-)

diff --git a/net/ipv4/fib_hash.c b/net/ipv4/fib_hash.c

index 76bb7fd..a52b570 100644

--- a/net/ipv4/fib_hash.c

+++ b/net/ipv4/fib_hash.c

@@ -315,10 +315,7 @@ fn_hash_select_default(struct fib_table *tb, const struct flowi *flp, struct fib

break;

} else if (!fib_detect_death(fi, order, &last_resort, &last_idx, fn_hash_last_dflt)) {

- if (res->fi)

- fib_info_put(res->fi);

- res->fi = fi;

- atomic_inc(&fi->fib_clntref);

+ fib_result_assign(res, fi);

fn_hash_last_dflt = order;

goto out;

}

@@ -333,21 +330,13 @@ fn_hash_select_default(struct fib_table *tb, const struct flowi *flp, struct fib

}

if (!fib_detect_death(fi, order, &last_resort, &last_idx, fn_hash_last_dflt)) {

- if (res->fi)

- fib_info_put(res->fi);

- res->fi = fi;

- atomic_inc(&fi->fib_clntref);

+ fib_result_assign(res, fi);

fn_hash_last_dflt = order;

goto out;

}

- if (last_idx >= 0) {

- if (res->fi)

- fib_info_put(res->fi);

```

- res->fi = last_resort;
- if (last_resort)
- atomic_inc(&last_resort->fib_clntref);
- }
+ if (last_idx >= 0)
+ fib_result_assign(res, last_resort);
  fn_hash_last_dflt = last_idx;
out:
  read_unlock(&fib_hash_lock);
diff --git a/net/ipv4/fib_lookup.h b/net/ipv4/fib_lookup.h
index 6c9dd42..26ee66d 100644
--- a/net/ipv4/fib_lookup.h
+++ b/net/ipv4/fib_lookup.h
@@ -38,4 +38,14 @@ extern int fib_detect_death(struct fib_info *fi, int order,
    struct fib_info **last_resort,
    int *last_idx, int dflt);

+static inline void fib_result_assign(struct fib_result *res,
+    struct fib_info *fi)
+{
+ if (res->fi != NULL)
+ fib_info_put(res->fi);
+ res->fi = fi;
+ if (fi != NULL)
+ atomic_inc(&fi->fib_clntref);
+}
+
#endif /* _FIB_LOOKUP_H */
diff --git a/net/ipv4/fib_trie.c b/net/ipv4/fib_trie.c
index 914a0d2..29a06af 100644
--- a/net/ipv4/fib_trie.c
+++ b/net/ipv4/fib_trie.c
@@ -1828,10 +1828,7 @@ fn_trie_select_default(struct fib_table *tb, const struct flowi *flp, struct
    fib
        break;
    } else if (!fib_detect_death(fi, order, &last_resort,
        &last_idx, trie_last_dflt)) {
- if (res->fi)
- fib_info_put(res->fi);
- res->fi = fi;
- atomic_inc(&fi->fib_clntref);
+ fib_result_assign(res, fi);
    trie_last_dflt = order;
    goto out;
  }
@@ -1844,20 +1841,12 @@ fn_trie_select_default(struct fib_table *tb, const struct flowi *flp,
struct fib
  }

```

```

    if (!fib_detect_death(fi, order, &last_resort, &last_idx, trie_last_dflt)) {
-   if (res->fi)
-   fib_info_put(res->fi);
-   res->fi = fi;
-   atomic_inc(&fi->fib_clntref);
+   fib_result_assign(res, fi);
    trie_last_dflt = order;
    goto out;
    }
-   if (last_idx >= 0) {
-   if (res->fi)
-   fib_info_put(res->fi);
-   res->fi = last_resort;
-   if (last_resort)
-   atomic_inc(&last_resort->fib_clntref);
-   }
+   if (last_idx >= 0)
+   fib_result_assign(res, last_resort);
    trie_last_dflt = last_idx;
    out:;
    rcu_read_unlock();
--

```

1.5.3.rc5
