

---

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

[View Forum Message](#) <> [Reply to Message](#)

---

ipv4: unify assignment of fi to fib\_result

Signed-off-by: Denis V. Lunev <den@openvz.org>

Acked-by: Alexey Kuznetsov <kuznet@ms2.inr.ac.ru>

---

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

---