unhashed inode Posted by Daniel Lezcano on Wed, 06 Jun 2007 15:22:59 GMT View Forum Message <> Reply to Message Serge E. Hallyn wrote: > Quoting dlezcano@fr.ibm.com (dlezcano@fr.ibm.com): >> The socket relies on the sockfs. In some cases, the socket are orphans and >> it is not possible to access them via a file descriptor, this is the case for >> example for timewait sockets. Hopefully, an inode is still usable to specify >> a socket. This one can be retrieved from /proc/net/tcp for orphan sockets or >> from a fstat. >> >> When a socket is created the socket inode is added to the sockfs. >> Unfortunatly, this one is not stored into the hashed inode list, so >> I need a helper to browse the inode list contained in the superblock >> of the sockfs. >> >> This is one solution, another solution is to stored the inode into >> the hashed list when socket is created. >> > > I assume that would be unacceptable overhead on a very busy server. > Walking all the inodes NUM\_INODES(task\_set) for a checkpoint could > be a real bottleneck, but at least it's only at checkpoint time. > Have you checked net-dev archives for discussions about not hashing > these inodes? I suppose at some point you'll want to ask there what the > preference is. I didn't looked at the netdev archive, but, sure, I will dig and ask to netdev@ Thanks. > But certainly for now this seems the right approach. > > >> Signed-off-by: Daniel Lezcano <dlezcano@fr.ibm.com> > Acked-by: Serge E. Hallyn <serue@us.ibm.com> > (Or whatever tag they decide over on lkml that I should be using :) > > thanks. > -serge > PS - I won't be acking other patches bc I just haven't looked at

Subject: Re: [patch 1/5][RFC - ipv4/udp checkpoint/restart] : add lookup for

```
> netlink enough - so don't read anything more into that :)
>
>
>> ---
>> fs/inode.c
                  >> include/linux/fs.h | 1 +
>> 2 files changed, 30 insertions(+)
>>
>> Index: 2.6.20-cr/fs/inode.c
>> --- 2.6.20-cr.orig/fs/inode.c
>> +++ 2.6.20-cr/fs/inode.c
>> @ @ -877,6 +877,35 @ @
>>
>> EXPORT_SYMBOL(ilookup);
>> +
>> +/**
>> + * ilookup unhased - search for an inode in the superblock
>> + * @sb: super block of file system to search
>> + * @ino: inode number to search for
>> + *
>> + * The ilookup_unhashed browse the superblock inode list to find the inode.
>> + * If the inode is found in the inode list stored in the superblock, the inode is
>> + * with an incremented reference count.
>> + * Otherwise NULL is returned.
>> + */
>> +struct inode *ilookup_unhashed(struct super_block *sb, unsigned long ino)
>> + struct inode *inode = NULL;
>> +
>> + spin_lock(&inode_lock);
>> + list_for_each_entry(inode, &sb->s_inodes, i_sb_list)
>> + if (inode->i ino == ino) {
>> + __iget(inode);
>> + break;
>> + }
>> + spin_unlock(&inode_lock);
>> + return inode:
>> +
>> +}
>> +EXPORT_SYMBOL(ilookup_unhashed);
>> +
>> /**
>> * iget5 locked - obtain an inode from a mounted file system
   * @sb: super block of file system
```

```
>> Index: 2.6.20-cr/include/linux/fs.h
>> --- 2.6.20-cr.orig/include/linux/fs.h
>> +++ 2.6.20-cr/include/linux/fs.h
>> @ @ -1657,6 +1657,7 @ @
>> extern struct inode *ilookup5(struct super_block *sb, unsigned long hashval,
    int (*test)(struct inode *, void *), void *data);
>> extern struct inode *ilookup(struct super_block *sb, unsigned long ino);
>> +extern struct inode *ilookup unhashed(struct super block *sb, unsigned long ino);
>>
>> extern struct inode * iget5_locked(struct super_block *, unsigned long, int (*test)(struct inode *,
void *), int (*set)(struct inode *, void *), void *);
>> extern struct inode * iget_locked(struct super_block *, unsigned long);
>>
>> --
>>
>> Containers mailing list
>> Containers@lists.linux-foundation.org
>> https://lists.linux-foundation.org/mailman/listinfo/containers
>>
>
Containers mailing list
Containers@lists.linux-foundation.org
```

https://lists.linux-foundation.org/mailman/listinfo/containers