Support Toolbox Manual

Chapter 6

Object Tools

Chapter 6 - Object Tools

A. Introduction

This chapter describes five programs which are useful when developing new software objects. Where appropriate, these programs are being modelled on their UNIX counterparts.

A.1. kdiffobj — *compare the same object in two different toolboxes*

Object Information

Category: *Command Line Tools*
Subcategory: *Object Utilities*
Operator: *Object Diff*
Object Type: *kroutine*
In Cantata: *No*

Description

kdiffobj diffs the source code for an object into two different toolboxes. The list of source code is retrieved from the object's cms database file and the list presented to the user.

Examples

% kdiffobj -oname karith1 -tb1 datamanip -tb2 mytoolbox

Command Line Arguments

```
Usage for kdiffobj: compare the same object in two different toolboxes
% kdiffobj
  -oname     (string) Program or Library Object Name


  [Optional Mutually Inclusive Group - Specify all or none of the 2 options:]
    [-tb1] (string) First toolbox with object to compare
           (default = null)
    [-tb2] (string) Second toolbox with object from
           (default = null)
```

A.2. kfindobj — *search for software objects in toolboxes*

Object Information

Category: *Command Line Tools*
Subcategory: *Object Utilities*

Operator: *Object Find*
Object Type: *kroutine*
In Cantata: *No*

Description

kfindobj prints out a list of software objects, where the list of objects is determined using find(1) like options. You can search all toolboxes for a specific object, list all software objects of a given type, or list all objects within one toolbox. These options can be combined to further restrict the search.

Examples

The following command will list all objects in the *DESIGN* toolbox of type *library*:
% kfindobj -tb design -type kroutine

To find all *script* objects, in all available toolboxes, you would use the following:
% kfindobj -type script

Command Line Arguments

```
Usage for kfindobj: search for software objects in toolboxes
% kfindobj
  [-tb]       (string) Toolbox to search
              (default = null)
  [-oname]    (string) Software object name
              (default = null)
  [-type]     (string) Software object type
              (default = null)
```

A.3. kgrepobj — *grep for strings, routines or function in an object*

Object Information

Category: *Command Line Tools*
Subcategory: *Object Utilities*
Operator: *Object Grep*
Object Type: *kroutine*
In Cantata: *No*

Description

kgrepobj is used to search for the occurence of text strings, routine names, or function names. It can either search all toolboxes, a specific toolbox, or one object with a toolbox.

Examples

To search for the word donut in all files of the library object kcms, in the toolbox BOOTSTRAP, you would use the following command:
% kgrepobj -tb bootstrap -oname kcms -string donut

Restrictions

kgrepobj currently works like fgrep(1), in that it will only look for fixed strings. In the future it will hopefully support regular expression searches. Feel free to implement this feature.

Command Line Arguments

```
Usage for kgrepobj: grep for strings, routines or function in an object
% kgrepobj

  Required Mutually Exclusive Group - Specify exactly one of the 3 options:
    [-function] (string) Specific function to search for
                (default = null)
    [-string]   (string) String expression to search for
                (default = null)
    [-routine]  (string) Specific routine to search for
                (default = null)

  [-tb]       (string) Toolbox to search
              (default = null)
  [-oname]    (string) Object to search
              (default = null)
  [-type]     (string) Software object type
              (default = null)
```

A.4. klint — *check for toolbox and object integrity*

Object Information

Category: *Command Line Tools*
Subcategory: *Object Utilities*
Operator: *Object Lint*
Object Type: *script*
In Cantata: *No*

Description

The script will check the see if the database matches the files in the object's directories. If nothing specified on the command line than all toolboxes and all the objects within are checked. You can specify multiple toolboxes by doing:

% klint -tb toolbox1,toolbox2

You can specify multiple objects by doing, but the object will have to be in every toolbox:

% klint -oname object1,object2

If you combine the two options the objects specified must be in every toolbox specified.

% klint -tb toolbox1,toolbox2 -oname object1,object2

Examples

To check the kdataserv object in the khoros toolbox do,

% klint -tb khoros -oname kdataserv

or if the kdataserv object is in the khoros toolbox and the khorosdevel toolbox do,

% klint -tb khoros,khorosdevel -oname kdataserv

A.5. ksync — *synchronize object database and any caches*

Object Information

Category: *Command Line Tools*
Subcategory: *Object Utilities*
Operator: *Synchronize Object*
Object Type: *kroutine*
In Cantata: *No*

Description

ksync is used to synchronize an object with any cache held by kcms. There are two common situations where *ksync* would be used:

- o When an object's database has been manually edited, using *kdbmedit*, or some other utility.
- o When a cache mechanism has been changed.

For example, if kcms is changed to store a new field in the cache, then all caches must be updated. The example below shows how all objects in all toolboxes can be synchronized.

In the future *ksync* will be updated to include options for synchronizing all objects within a given toolbox, and synchronizing all objects in all toolboxes.

Examples

The following bourne shell script can be used to invoke ksync on all objects in all toolboxes

```
#!/bin/sh
for toolbox in ‘kecho -echo toolboxes‘; do
        for object in ‘kecho -tb $toolbox -echo objects‘; do
                ksync -tb $toolbox -oname $object
```

```
        done
    done
```

Command Line Arguments

```
Usage for ksync: synchronize object database and any caches
% ksync
  -tb        (string) toolbox name
  -oname     (string) name of object in toolbox
```

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