

The `cleanup` (1m) Utility

(and other HP-UX patch oddities)

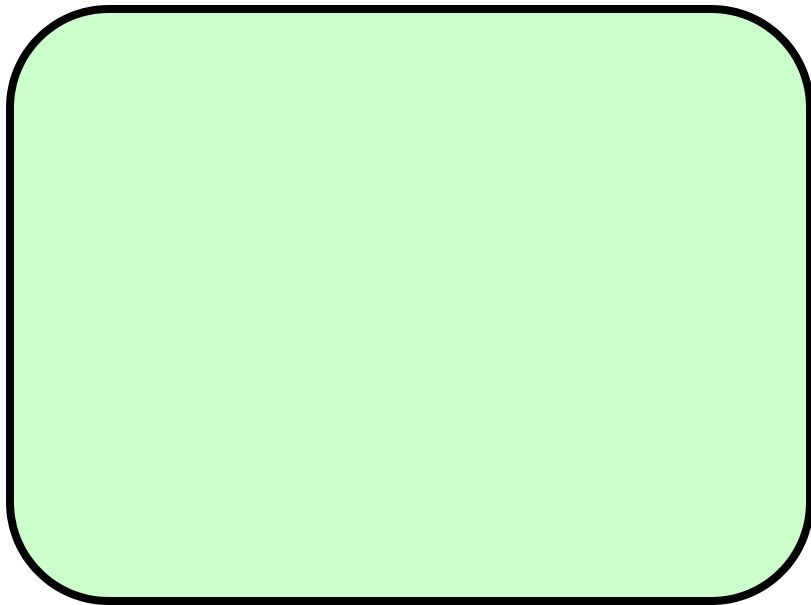
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The cleanup (1m) Utility (and other HP-UX patch oddities)

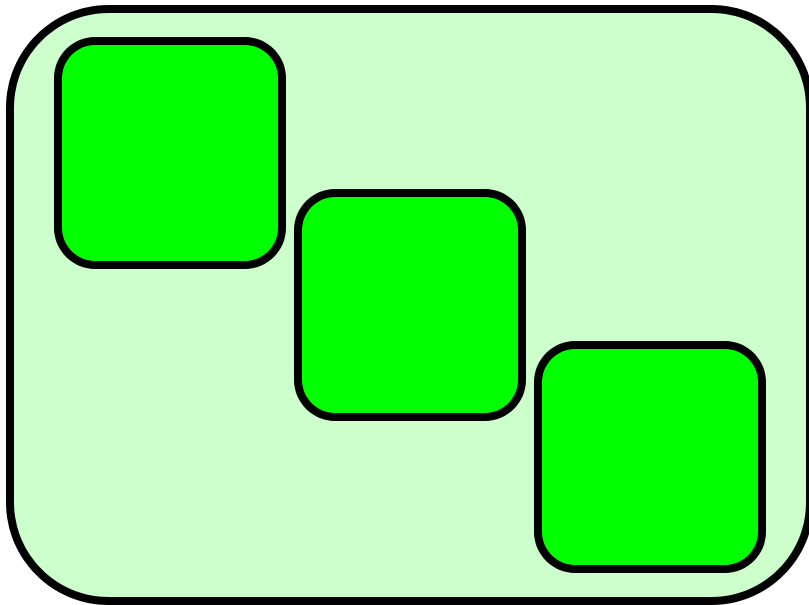
- Overview of Software Distributor (SD) concepts
 - Products, Filesets, and Patches, Oh my!
- The cleanup utility
 - Everything that SD left out
- Hunting patches and their bundles in the ITRC
 - Standard patch bundles and the Patch Database
- Advanced SD patch tricks
 - Using tags and attributes for fun and profit

The Bundle



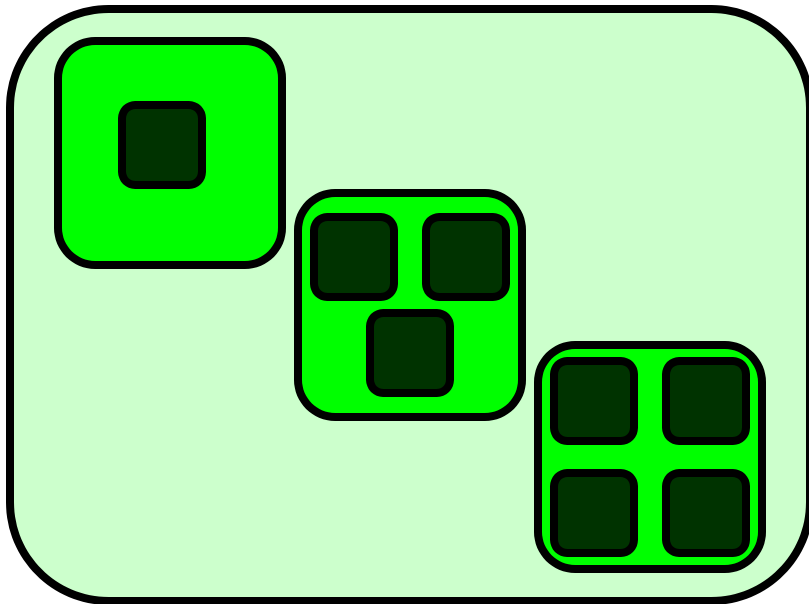
- the glamour & function of a paper sack
- includes contents by reference
- optional for SD, but required by IUX
- cannot be empty

The Product



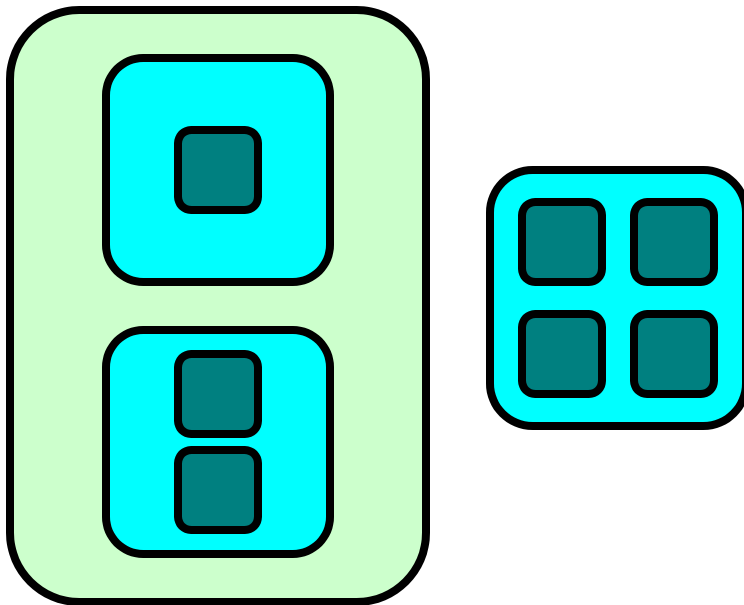
- may exist within bundles or solo
- contains filesets and scripts
- required object

The Fileset



- must exist within products
- contains files and scripts
- multi-streaming
- all SD really cares about

The Patch



- an SD product
- `is_patch/is_sparse` attributes set to true
- found in the wild as a shell archive (`shar`)
- they're different!

swlist of a bundle

```
# swlist -l bundle QPK1100
# Initializing...
# Contacting target "banba"...
#
# Target:  banba:/
#
```

```
QPK1100    B.11.00.54.7    Quality Pack for HP-UX 11.00, September 2001
```

swlist of products (patches)

```
# swlist -l product QPK1100
```

```
# QPK1100          B.11.00.54.7   Quality Pack for HP-UX 11.00,  
September 2001  
  QPK1100.PHCO_12555  1.0           ioinit patch  
  QPK1100.PHSS_24206  1.0           11.00 and 11.10 libm patch  
  QPK1100.PHSS_24105  1.0           C3X00/J5X00/J6000/J7000 5.0 FW  
  QPK1100.PHSS_23904  1.0           XClients JUNE2001 Periodic Patch  
  QPK1100.PHSS_23823  1.0           X/Motif 32bit Runtime APR2001
```


swlist of filesets

```
# swlist -l fileset QPK1100

# QPK1100                                B.11.00.54.7    Quality Pack for HP-UX 11.00,
September 2001
# QPK1100.PHCO_12555                      1.0             ioinit patch
  QPK1100.PHCO_12555.UX-CORE              1.0             OS-Core.UX-CORE
# QPK1100.PHSS_24206                      1.0             11.00 and 11.10 libm patch
  QPK1100.PHSS_24206.C-INC                 1.0             B.11.X
  QPK1100.PHSS_24206.C-MIN                 1.0             B.11.X
```

swlist of files

```
# swlist -l file QPK1100
```

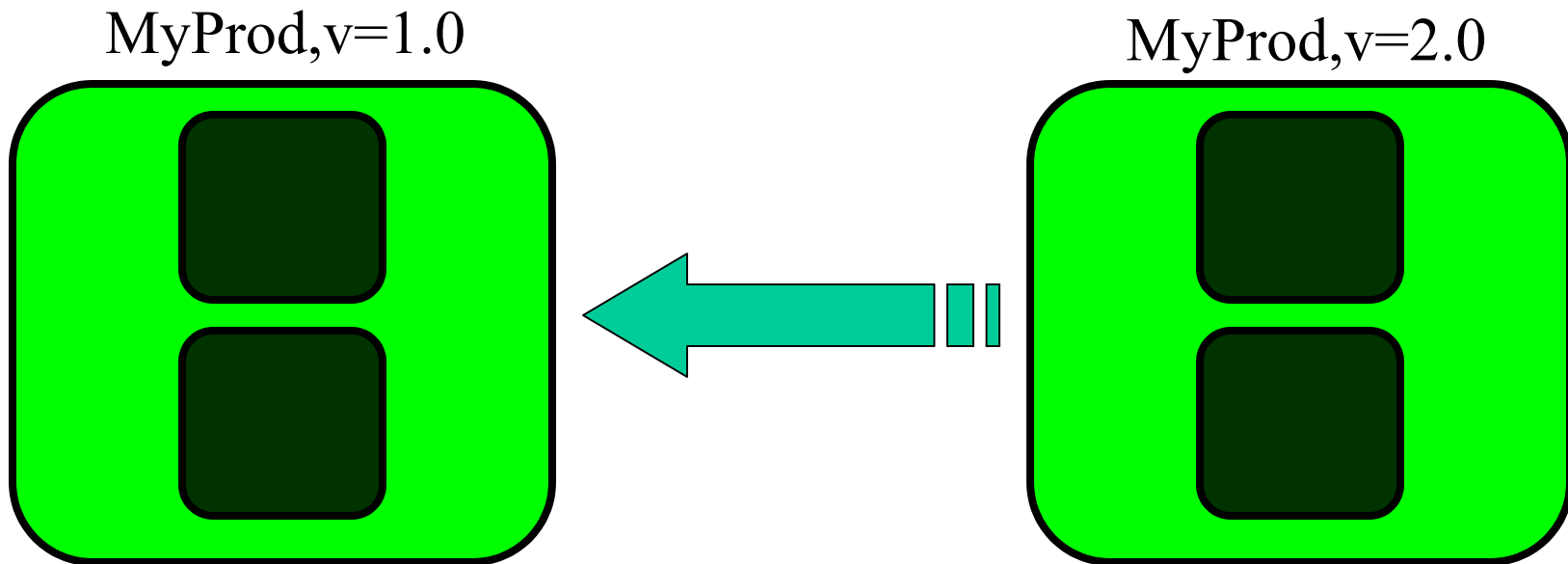
```
# QPK1100                B.11.00.54.7    Quality Pack for HP-UX 11.00,  
September 2001
```

```
# QPK1100.PHCO_12555      1.0            ioinit patch
```

```
# QPK1100.PHCO_12555.UX-CORE 1.0            OS-Core.UX-CORE
```

```
QPK1100.PHCO_12555.UX-CORE: /sbin/ioinit
```

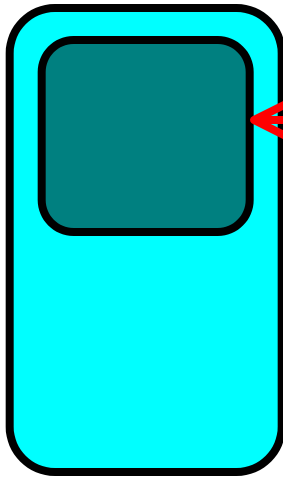
Products use Versioning



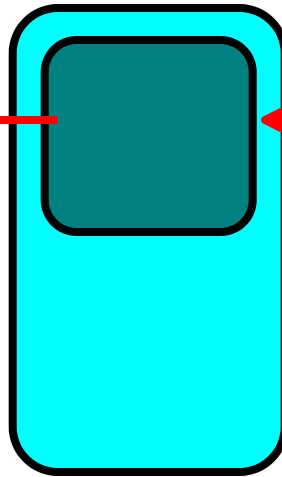
Ideally, version 1.0 of MyProd is completely erased from the system when revision 2.0 is loaded

Patches use supersession

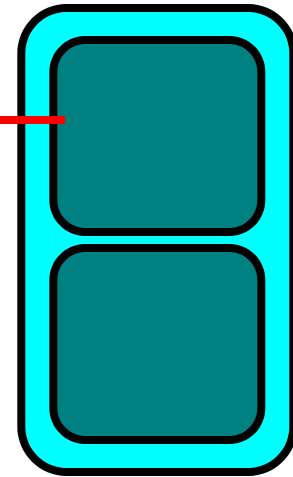
Patch_1,v=1.0



Patch_2,v=1.0

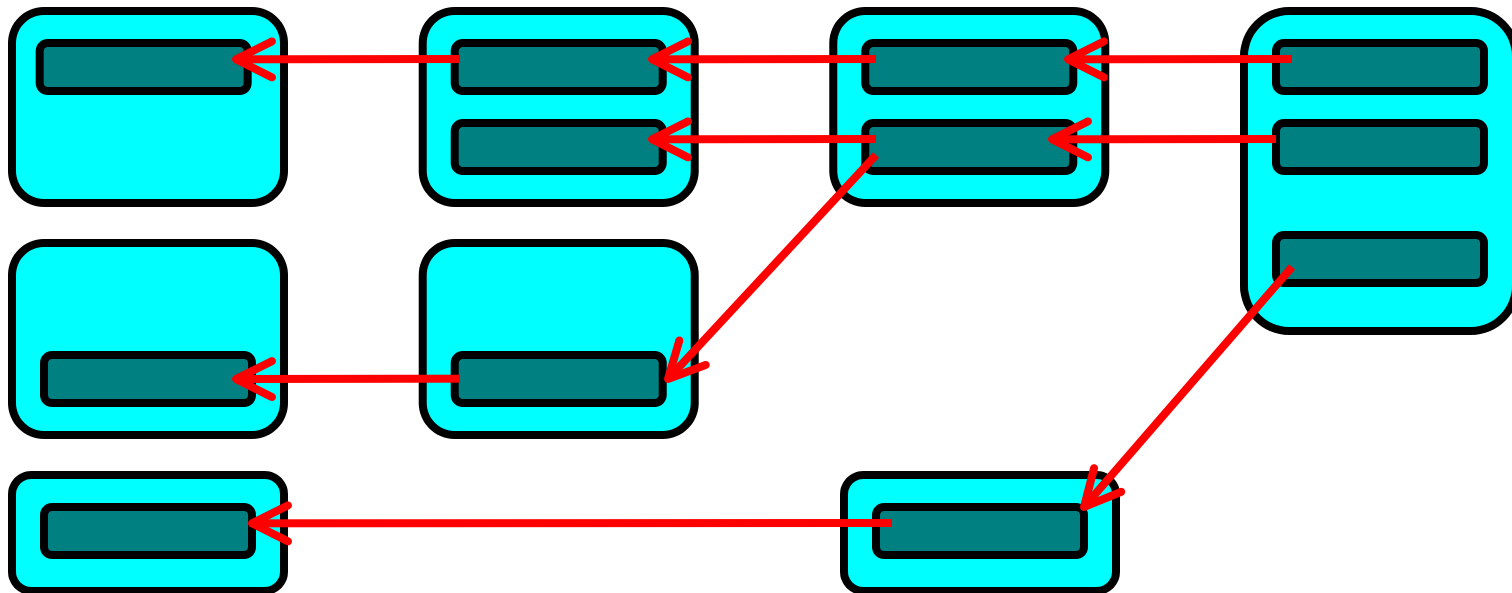


Patch_3,v=1.0



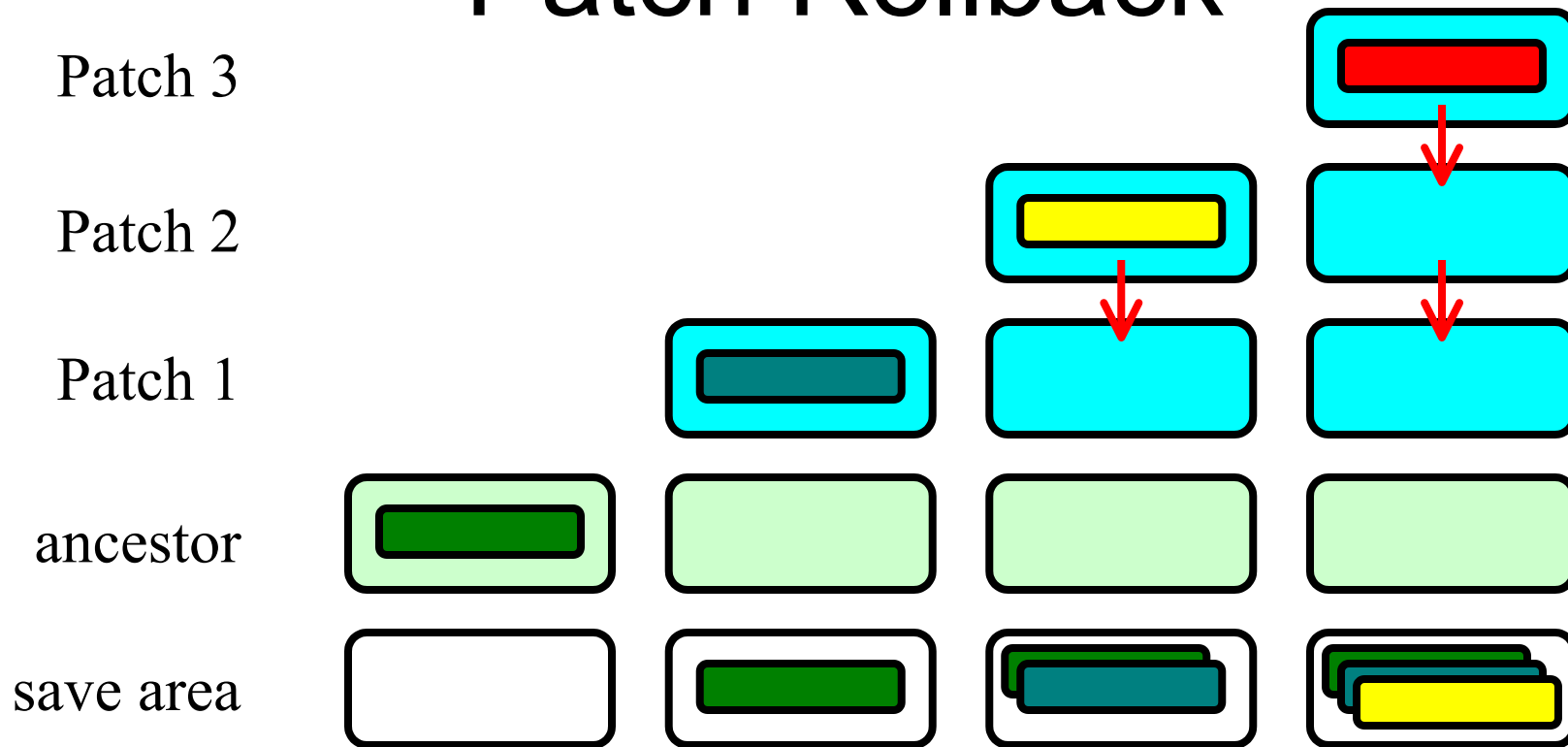
Supersession operates at the fileset level, but the policy of cumulative patching enforces it at the product level

Supersession can be complex



Sparseness allows multiple patches to modify one base fileset at the same time, and distinct chains can “bubble” together

Patch Rollback



The files modified when a patch is installed are saved so during patch removal the system will return to the prior state

The cleanup family

- **cleanup (1m)**

Patch maintenance that SD forgot

- **check_patches (1m)**

Searches for all known patch problems

- **show_patches (1)**

A **swlist** that does not get confused

The cleanup family

Always delivered in patches:

- **PHCO_24630** (11.11)
- **PHCO_24347** (11.00)
- **PHCO_20824** (all 10.X)*

*While all of these patches are similar in form and function, the world of 10.X patches are very different! Check the 10.X documentation or past Interex proceedings for more information.

cleanup (1m)

Provides four basic operations:

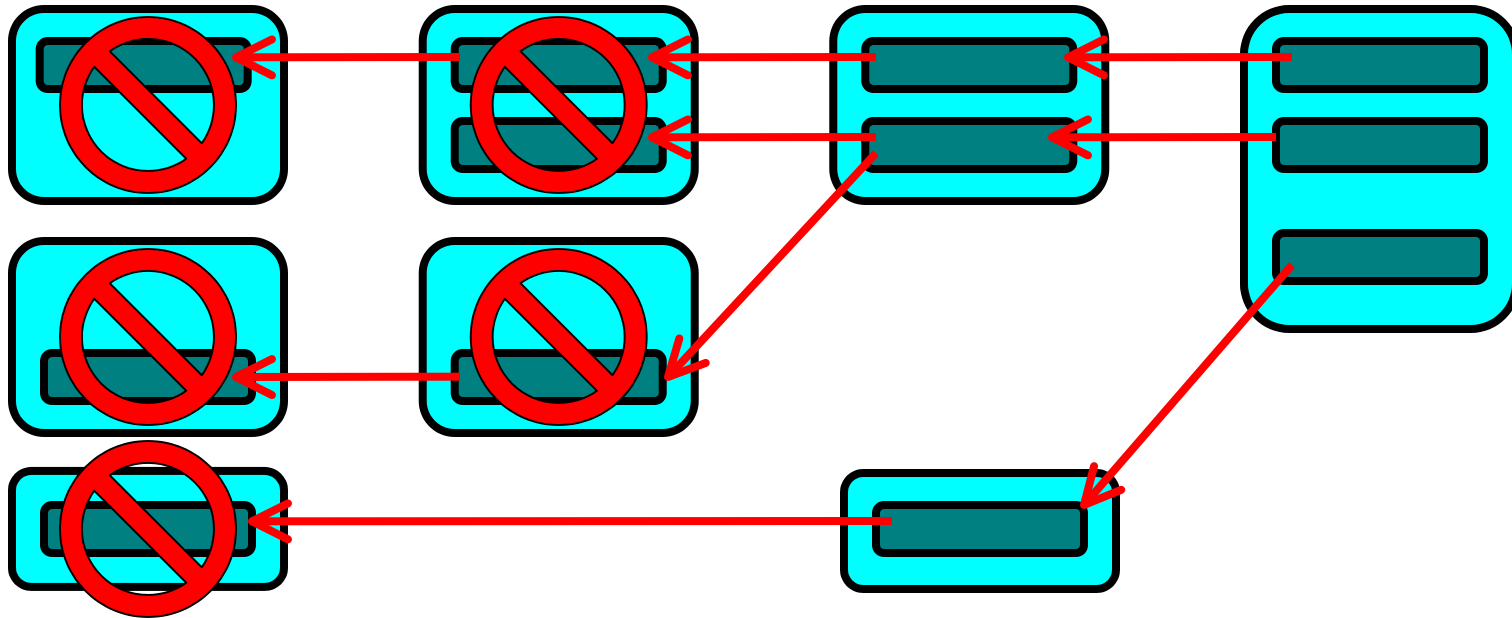
- patch commitment (*-c level*)
- depot cleaning (*-d depot*)
- IPD cleaning (*-i*)
- repair `patch_state` (*-s*)

`cleanup -c level`

- commits patches that have been superseded at least *level* times
- actual work performed using `swmodify (1m)`
- full commitment (`-F`) no longer supported, instead use `swmodify`:

```
swmodify -x patch_commit=true *.* ,c=patch
```

```
cleanup -c 2
```



After commitment, at most two patches in any supersession chain can be removed. Beyond that either product installation or system backup must be used to recover state.

Example: `cleanup -c 2`

The following patches superseded at least 2 time(s) can be committed:

Superseded	# Times Superseded	Disk Space in /var/adm/sw/save	Superseded By
=====	=====	=====	=====
PHKL_23291	2	22528 bytes	PHKL_23204
PHKL_23313	2	66560 bytes	PHKL_25165
PHKL_23389	2	227328 bytes	PHKL_24408

WARNING: When a patch is committed, the files saved to /var/adm/sw/save during the installation of the patch are removed. If these saved files are not present, then the patch cannot be removed from the system via `swremove(1M)`.

If these files in /var/adm/sw/save must be removed, HP recommends that the /var/adm/sw/save directory first be backed up. If it should become necessary to remove the patch in the future, the files must be recovered from the backup prior to removing the patch.

If you have not already created a backup of /var/adm/sw/save, you may wish to do so before proceeding with the patch commit operation.

Would you still like to commit these patches?

`cleanup -d depot`

- removes superseded patches from depots
- supports 10.X and 11.X depots. Must be indicated using the `-o` option
- also removes patches with requisites against superseded patches
this can be disabled with `-e false` option.

Example: cleanup -d

```
# cleanup -d /var/tmp/depot -o 11
### Cleanup program started at 07/21/02 02:08:57
Cleanup of depot '/var/tmp/depot'.
Obtaining the list of patches in the depot: /var/tmp/depot ...done.
Obtaining the list of superseded 11.X patches in the depot:
    /var/tmp/depot ...The following superseded patches exist in the depot:
=====
PHCO_23004 superseded by PHCO_25870
PHCO_23150 superseded by PHCO_25311
PHKL_24022 superseded by PHKL_24854
PHKL_24031 superseded by PHKL_25218
PHKL_24219 superseded by PHKL_24824
PHKL_24283 superseded by PHKL_26410
PHSS_21816 superseded by PHSS_25288
PHSS_24106 superseded by PHSS_25983

Please be patient; this may take several minutes.

Removing superseded 11.X patches from depot: /var/tmp/depot ...done.
The superseded 11.X patches have been removed from the depot:
    /var/tmp/depot.
All information has been logged to /var/adm/cleanup.log.
### Cleanup program completed at 07/21/02 02:08:57
```

`cleanup -i`

- removes HP-UX 10.X patch data from the Installed Products Database (IPD)
- HP-UX 11.X patches are managed by `swinstall (1m)` & `swremove (1m)`
- for HP-UX 11i, `update-ux (1m)` should do this for you automatically
- **NEVER** use `swremove (1m)` !!!!

Other `cleanup` options

- p** Preview
Run without making any changes
- n** Notify
Confirmation needed for all changes
- s** patch State
Modifies the `patch_state` attribute to match the actual state

check_patches (1m)

- a scanner to detect any known issues with the patch infrastructure
- the 11.X version delivered in PHCO_24630 has 7 distinct checks
- the utility identifies problems, but will not modify the system

`check_patches -i`

The invalid patch attributes check.

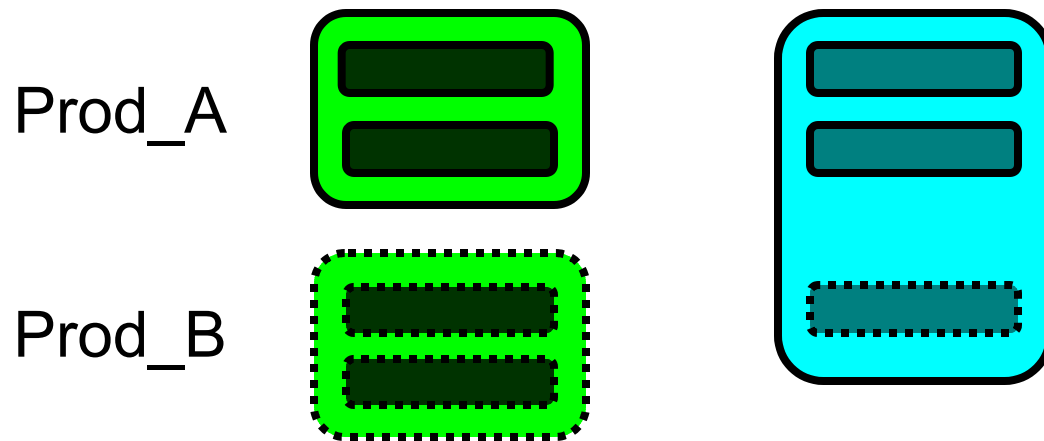
- attributes defining a patch on 11.X releases can be lost or corrupt
- usually from residing in 10.X-style depots
- should be considered a severe issue when encountered

check_patches -m

The missing filesets check

- patches are considered atomic, but may include many filesets for multiple ancestors
- the latest versions of swinstall verify that all filesets of a patch that can install are included when any fileset is installed
- multi-ancestor patches are still at risk

How to lose a fileset



If a patch for 2 products is loaded when only 1 is present, any filesets intended for the uninstalled product cannot load. If that product is installed later, a **split patch** condition may exist.

check_patches -o

The relocatable object check

- products deliver full libraries (.a) but a patch will deliver individual objects (.o)
- once put in place into a library, the object is no longer verifiable by SD
- check_patches compares the cksum values of object files to the expected values listed in the IPD

`check_patches -p`

The `patch_state` fileset attribute check

- `patch_state` defines where a patch is in relation to its supersession chain
- filesets have been left in the applied state when they have been superseded or committed
- when detected, may be fixed with `cleanup -s`

`check_patches -s`

The `state` fileset attribute check

- all filesets should be `configured`
- multi-depot installs may leave filesets in the `installed` state, but same as `configured` if no `configure` scripts exist
- a `transient` or `corrupt` state may indicate a serious installation error

`check_patches -v`

Runs `swverify (1m)` against all patches

- compares IPD values to actual
- values checked include owner, mode, cksum, and modification time
- each HP-UX release has been held to higher standards, errors should not be expected
- if problems are seen, review SD scripts

check_patches (1 more)

Check for required SD patch (11.11 only)

- PHCO_23578 (or later) is a required patch and included in BUNDLE11i
- delivers version of swconfig required for enforced patch dependency support
- no option defined, this test is always run

`show_patches (1)`

- lists active (`-a`) or superseded (`-s`) patches or filesets (`-l fileset`)
- obsolete on HP-UX 11.11 (11i) and later releases due to the support for `show_superseded_patches=true`
- kept due to customer requests

Example: show_patches -l fileset

```
# show_patches -l fileset
```

Active Patch	Patch Description and State
PHCO_22958	set_parms
PHCO_22958.FIRST-BOOT	applied
PHCO_23263	HP AutoRAID Manager cumulative patch
PHCO_23263.ADMN-ENG-A-MAN	applied
PHCO_23263.ARRAY-MGMT	applied
PHCO_23333	LVM Virtual Array support
PHCO_23333.LVM-RUN	applied
PHCO_23510	gsp parser & dimm labels
PHCO_23510.CORE-SHLIBS	applied
PHCO_23578	Software Distributor Cumulative Patch
PHCO_23578.SD-AGENT	applied
PHCO_23578.SD-CMDS	applied
PHCO_23578.SD-HELP	applied
PHCO_23774	Partition Commands cumulative patch
PHCO_23774.CORE-ENG-A-MAN	applied
PHCO_23774.SYS-ADMIN	applied

Into the IT Resource Center

- the one-stop support shop located on the web at <http://itrc.hp.com>
- everything seen here is free, but registration is required in some areas
- much more for those with support contracts!



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→ register now!

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English

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- forums
- training and education
- planning, design, and implementation

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- individual patches
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- software call manager
- hardware call manager
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tools

- translation tools

highlights

- you can still compete in the forums contest
- hp world special event for ITRC members
- new functionality from software update manager
- ITRC forums unveils new enhancements
- brand-rx: always running with hp
- supply chain solutions from hp
- openview operations 7.0 course updates
- web collaboration takes off

useful links

- introducing the ITRC
- customer success stories
- review, renew, revise support contracts online
- hp openview consultant



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- support info by product
- knowledge trees
- individual patches
- more...
- forums
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- planning, design, and implementation

Please Note:

Attention all China ITRC Hardware Call Manager (HWCM) users. Please note that you will not be able to access the HWCM service from Saturday, 20th July 5:00 PM (GMT+8) to Sunday, 21st July 11:00 AM (GMT+8) due to a software upgrade. We apologise for the inconvenience caused.

self-solve tools

- search technical knowledge base **i**
- browse support information by product **i** **o** **π**
- navigate knowledge trees and response center FAQ's **i** **o** **π**

patching

- individual patches **i**
- standard patch bundles (support plus) **i** **o** **π** **\$**
- customized patch bundles (custom patch manager) **i**
- custom patch notification **i** **o** **π**

downloads / licensing

- individual patches **i**
- standard patch bundles (support plus) **i**
- updates (software update manager) **i** **o** **π**
- software licensing (codewords, passwords, FAQs) **i**

legend

- o** **π** requires additional authorization like a certain level of support agreement or online purchase.
- \$** can be purchased online if you are not already entitled to it.

in the news

- you can still compete in the forums contest
- hp world special event for ITRC members
- new functionality from software update manager
- ITRC forums unveils new enhancements
- brand-rex: always running with hp isee
- web collaboration takes off

instant support

- about hp instant support and isee
- hp instant support



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standard patch bundles

HP-UX Support Plus is a new product designed to improve the usability of software updates and enhancements. It replaces the Extension Software and Independent Product Release (IPR) products. HP-UX Support Plus contains diagnostic tools and tested General Release, Quality Pack, and Hardware Enablement patch bundles.

legend

-  requires additional authorization like a certain level of support agreement or online purchase.
-  can be purchased online if you are not already entitled to it.

→ Obtain Support Plus Bundles from HP Software Depot

Download Support Plus patch bundles and support tools, or review the Support Plus bundle types in the HP Software Depot.

→ Obtain Support Plus from Software Update Manager

Go to the latest Support Plus page in Software Update Manager (based on the default System Handle linked to your User ID). There you may request shipment of Support Plus CD-ROMs, or download Support Plus immediately.

→ View Support Plus Releases

Review patch bundle contents in recent Support Plus Releases, with links to full patch text descriptions and download options.



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support plus release index

Support Plus contains bundles of patches for the core HP-UX operating system that have received additional testing as a group. Patches on Support Plus are considered [Recommended](#) patches. The current bundles for all currently supported HP-UX releases are placed onto CD-ROM every three months and are made available to those with HP Software Support Agreements.

This page lists the bundles contained in recent releases of the Support Plus media. Clicking on a bundle will take you to a page listing the contents of the bundle, including the patch descriptions. Each patch in the bundle contents page is linked to its entry in the Patch Database for additional information and download options.

Support Plus is identified by a Release Date, OS, and by an HP Part Number. The Release Date and HP Part Number refer to a specific version of the Support Plus media, and each are printed on the CD-ROM and packaging.

index of support plus media

release date	release number	hp part number
Jun '02 (Support Plus 11.00)	SP-0206	5012-0095
Jun '02 (Support Plus 11.11)	SP-0206	5012-0096
Mar '02 (Support Plus 11.00)	SP-0203	5012-0049
Mar '02 (Support Plus 11.11)	SP-0203	5012-0050
Dec '01 (Support Plus 10.20-700)	SP-0112	5012-0012

June 2002 SP-0206 (Part Number: 5012-0095)

Please note: Beginning with the December 2001, 11.00 Support Plus media, the XSWHWCR1100 bundle is replaced with the HWE1100 bundle. Critical patches previously found in the XSWHWCR1100 bundle are available in the QPK1100 bundle.

release	bundle/ version	description
HP-UX 11.00	B9073AA B.04.01	HP-UX iCOD-purchase (Instant Capacity on Demand - purchase)
	OnlineDiag B.11.00.21.10	HPUX 11.0 Support Tools Bundle, Jun 2002
	QPK1100 B.11.00.56.5	Quality Pack for HP-UX 11.00 (March 2002)
	HWE1100 B.11.00.0206.5	Hardware Enablement Patches for HP-UX 11.00, (June 2002)

June 2002 SP-0206 (Part Number: 5012-0096)

Please note: Both the GOLDBASE11i and GOLDAPPS11i bundles including their respective patches are delivered within the same depot. The depot name on the Support Plus media is GOLDQPK11i.

release	bundle/ version	description
HP-UX 11.11	B9073AA B.04.01	HPUX iCOD-purchase (Instant Capacity on Demand - purchase)
	OnlineDiag B.11.11.07.11	HPUX 11.11 Support Tools Bundle, Jun 2002
	GOLDAPPS11i B.11.11.0206.4	Gold Applications Patches for HP-UX 11i, June 2002
	GOLDBASE11i B.11.11.0206.4	Gold Base Patches for HP-UX 11i, June 2001



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contents of QPK1100 (SP-0206)

HP-UX 11.00 Quality Pack Patch Bundle

- The first column lists the patches contained in the bundle. Some issues with patches may have come up after the bundle was released. These patches are labeled with the word "warning" in red.

To view a patch's entry in the Patch Database, click on the Patch Name. This lets you view more detailed information about the patch, including patch warning information.

- The second column lists the [Recommended](#) patch for patches with warnings. When this field is blank, no older or newer patch meets "recommended" criteria. To determine your next course of action, click on the Patch Name and read the patch warning information. The warning information will give a recommended course of action.
- The third column contains the patch description.

patch	recommended patch	description
PHCO_12555		ioinit patch
PHCO_13205		dd(1) patch for block/unblock conversion
PHCO_13349		XCurses header patch.
PHCO_13719		comsec (ttsyncd) patch
PHCO_13812		fixes dump(1M) handling of active files

PHCO_21602	audisp(1m) memory leak patches
PHCO_21854	HPDPS cumulative patch
PHCO_21894	vmstat(1) patch
PHCO_21901	fuser(1M) cumulative patch
PHCO_21927	iostat(1) patch
PHCO_22020	ksh(1) cumulative patch
PHCO_22035	sysdef(1) patch
PHCO_22096 PHCO_26235 warning	cumulative newgrp(1) patch
PHCO_22229	ex(1),vi(1) cumulative patch.
PHCO_22263	XCurses cumulative patch
PHCO_22500	m4(1) patch
PHCO_22592	pipcs(1) and pipcrm(1) patch
PHCO_22664	cumulative patch for /sbin/init
PHCO_22665	kermit(1) patch.



patch details: PHCO_22096

[→ view selected patch list](#)

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The recommended patch is : [PHCO_26235](#)
The most recent patch is : [PHCO_26235](#)

[→ ADD TO SELECTED PATCH LIST](#)

[Patch Name](#) [Patch Description](#) [Creation Date](#) [Post Date](#) [Hardware Platforms - OS Releases](#) [Products](#) [Filesets](#) [Automatic Reboot?](#) [Status](#) [Critical](#) [Category](#) [Tags](#) [Patch Name](#) [Symptoms](#) [Defect Description](#) [SR](#) [Patch Files](#) [what\(1\)](#) [Output](#) [cksum\(1\)](#) [Output](#) [Patch Conflicts](#) [Patch Dependencies](#) [Hardware Dependencies](#) [Other Dependencies](#) [Supersedes](#) [Equivalent Patches](#) [Patch Package Size](#) [Installation Instructions](#) [Special Installation Instructions](#)

Patch Name: [PHCO_22096](#)

Patch Description: s700_800 11.00 cumulative newgrp(1) patch

Creation Date: 00/08/03

Post Date: 00/08/09

Warning: 02/04/16 - This Non-Critical Warning has been issued by HP.

- [PHCO_22021](#) introduced behavior that prohibits any process executed by a user after executing the newgrp(1) command from creating a core file. When newgrp(1) is used the resource limit RLIMIT_CORE is set to 0, effectively prohibiting core dump files from being created. Unless the user is 'root', the resource limit RLIMIT_CORE can not be reset and

Sep '01 (Support Plus 11.11)	SP-0109	5012-7961
Jun '01 (Support Plus 10.20-700)	SP-0106	5012-7929
Jun '01 (Support Plus 10.20-800)	SP-0106	5012-7930
Jun '01 (Support Plus 11.00)	SP-0106	5012-7931
Jun '01 (Support Plus 11.11)	SP-0106	5012-7932

Find recent Support Plus bundles that contain a patch (lookups by patch number only): [→ FIND BUNDLES](#)

June 2002 SP-0206 (Part Number: 5012-0095)

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- [planning, design, and implementation](#)

Welcome, HP ESC Demo User!
(ESCDEMO)

support plus patch/bundle finder results

PHCO_24630: "HP-UX Patch Tools" was found on the following media:

HP Part Number: [5012-0096 \(SP-0206\)](#)

- [GOLDBASE11i](#)

HP Part Number: [5012-0050 \(SP-0203\)](#)

- [GOLDBASE11i](#)

HP Part Number: [5012-0015 \(SP-0112\)](#)

- [GOLDBASE11i](#)

FTP Listing of Root at us-ffs.external.hp.com

Welcome to the IT Resource Center ftp server

You are user 20, and there is a limit of 400 simultaneous accesses.

Log in as user "anonymous" (using your e-mail address as your password) to retrieve available patches for HP-UX, MPE/iX, and other platforms.

If you are a user of other HP ITRC services, log in with your HP ITRC User ID and password to deposit or retrieve your files.

If you have questions, send email to:

support_feedback@us-ffs.external.hp.com

.archive	Sep 30 1998 00:00 Directory
bin	May 22 2002 11:40 Directory
domain_patches	May 15 2002 22:05 Directory
export	Sep 30 1998 00:00 Directory
firmware_patches	Jul 17 2002 20:12 Directory
hp-ux_patches	Jul 17 2002 20:15 Directory
linux	Apr 10 2001 00:00 Directory
mailx	0 May 02 2002 11:28
mpe-ix_patches	Jul 18 2002 03:07 Directory
mv_patches	Jul 17 2002 20:33 Directory
patch_bundles	Apr 13 1999 00:00 Directory
patches_with_warnings	May 15 2002 03:03 Directory
recalled_patches	Oct 16 2001 00:00
superseded_patches	May 15 2002 03:09 Directory

Home of useful files

FTP Listing of /export/patches/ at us-ffs.external.hp.com

[Up to higher level directory](#)

bundles.xml	2,016	Jul 22 2002 03:07	Extensible Markup Language
catalogkeys.xml	4,266	May 15 2002 16:25	Extensible Markup Language
context.xml	36,056	Jul 22 2002 03:07	Extensible Markup Language
document.xml	1,188	Jul 22 2002 03:08	Extensible Markup Language
escpatch.dir	4,096	Jul 22 2002 03:05	
escpatch.pag	15,799,296	Jul 22 2002 03:05	
hp-wx.catalog.1020.gz	3,310,748	Jul 20 2002 03:09	GNU Zip Compressed Data
hp-wx.catalog.1100.gz	2,578,231	Jul 20 2002 03:09	GNU Zip Compressed Data
hp-wx.catalog.readme	1,027	Jul 20 2002 03:09	
hp-wx_obs_patch_list	263,036	Jul 20 2002 03:09	
hp-wx_patch_matrix	408,640	Jul 20 2002 03:09	
hp-wx_patch_sums	5,187,649	Jul 20 2002 03:09	
hp-wx_patch_sums.gz	1,847,041	Jul 20 2002 03:09	GNU Zip Compressed Data
mpe-ix_obs_patch_list	33,386	Jul 22 2002 03:08	
patches.xml	11,666,552	Jul 22 2002 03:08	Extensible Markup Language
remtxt.d	0	Jul 22 2002 03:05	
security_catalog	959,567	Jul 20 2002 03:09	
security_catalog.gz	180,049	Jul 20 2002 03:09	GNU Zip Compressed Data
security_catalog.sync	79	Jul 20 2002 03:09	
slxrept.d	1,576,112	Jul 22 2002 03:08	
webpatches.xml	289	Jul 22 2002 03:08	Extensible Markup Language

hp-ux_patch_matrix

lists security patches by release

```
s800 11.11: PHCO_23492 s700_800 11.11 Kernsyntab Patch
PHCO_23909 s700_800 11.11 cu(1) patch
PHCO_24839 s700_800 11.11 libpam_unix cumulative patch
PHCO_25111 s700_800 11.11 lpspool subsystem cumulative patch
PHCO_25526 s700_800 11.11 login cumulative patch
PHCO_25887 s700_800 11.11 Software Distributor Cumulative Patch
PHCO_26061 s700_800 11.11 Kernel configuration commands patch
PHKL_23335 s700_800 11.11 solve inode deadlock with mmap and pagefault
```

lists all patches by bulletin

```
s800 11.00: None
s800 11.04: None
s800 11.10: None
s800 11.11: PHCO_23492
s800 11.20: None
s800 11.00: None
s800 11.04: None
s800 11.10: None
s800 11.11: PHCO_23492
s800 11.20: None
```

Security Bulletin 160: Security Vulnerability in login (rev.01)

Current	Original
s300 8.00: None	s300 8.00: None
s300 9.00: None	s300 9.00: None



... any time left?

If so then let's try getting SD
to jump through some hoops!

Tip 1: Manual Dependencies

- on HP-UX 11.11 and later releases, patches can enforce dependencies with SD requisites
- some patches remain unable to use this mechanism
- when building a depot, or picking and choosing single patches you need to know what to review

manual_dependencies tag

```
# swlist -d -l product *,c=manual_dependencies @ patchsvr:/depots/myDepot
# Initializing...
# Contacting target "patchsvr"...
#
# Target:  patchsvr:/depots/myDepot
#
```

PHCO_23774	1.0	Partition Commands cumulative patch
PHCO_24198	1.0	ioscan(1M) patch
PHCO_24504	1.0	audisp patch for IPv6 and unix sockets
PHKL_23203	1.0	Invalid I/O blocks moved to iospace.
PHKL_24163	1.0	Kernel Patch For "ioscan -k" Performance
PHKL_24253	1.0	thread nostop patch supporting NFS
PHKL_24254	1.0	thread nostop patch supporting NFS
PHKL_24255	1.0	thread nostop patch supporting NFS
PHKL_24256	1.0	signal race condition patch/threads
PHKL_24551	1.0	thread nostop, vPar, Psets, load averages
PHNE_24035	1.0	ONC/NFS General Release/Performance Patch
PHSS_23557	1.0	PEX 5.1/Starbase/Hardcopy Run (PA2.0 only)
PHSS_23558	1.0	DDA Run (PA2.0 only)

readme attribute

```
# swlist -d -l product -a readme *,c=manual_dependencies @ /depots/myDepot
# Initializing...
# Contacting target "patchsvr"...
#
# Target:  patchsvr:/depots/SP55/GOLDQPK11i
#
```

PHCO_23774

Patch Name: PHCO_23774

Patch Description: s700_800 11.11 Partition Commands cumulative patch

Creation Date: 01/04/13

Post Date: 01/04/13

Hardware Platforms - OS Releases:

s700: 11.11

s800: 11.11

More fun with category tags

- a number of tags are predefined
 - special_release, enhancement, critical
- if filtering installation or removal, be alert for manual dependencies
- if desired, custom tags can be created

Creating category tags

```
# swlist -d -l product -a category_tag PHCO_23492 @ /var/tmp/bob_depot

# Target:  housesvr:/var/tmp/myDepot
#
PHCO_23492      patch      defect_repair  general_release

# swmodify -d -a category_tag=security_patch PHCO_23492 @ /var/tmp/myDepot

# swlist -d -l product -a category_tag PHCO_23492 @ /var/tmp/bob_depot

# Target:  housesvr:/var/tmp/myDepot
#
PHCO_23492      patch      defect_repair  general_release  security_patch
```

Filtering with custom tags

```
# swlist -d -l product *,c=security_patch @ /var/tmp/myDepot
# Initializing...
# Contacting target "housesvr"...
#
# Target:  housesvr:/var/tmp/myDepot
#
```

PHCO_23492	1.0	Kernsymtab Patch
PHCO_24839	1.0	libpam_unix cumulative patch
PHKL_23335	1.0	solve deadlock with mmap and pagefault
PHKL_23423	1.0	improper core dump msg
PHNE_22722	1.0	NTP timeservices utilities
PHNE_23275	1.0	Bind 8.1.2 Patch
PHNE_23950	1.0	ftpd(1M) patch