

```

*****
24661 Fri May 17 18:03:04 2013
new/usr/src/pkg/Makefile
3664 pkg/Makefile openssl logic should be removed
*****
1 #
2 # CDDL HEADER START
3 #
4 # The contents of this file are subject to the terms of the
5 # Common Development and Distribution License (the "License").
6 # You may not use this file except in compliance with the License.
7 #
8 # You can obtain a copy of the license at usr/src/OPENSOLARIS.LICENSE
9 # or http://www.opensolaris.org/os/licensing.
10 # See the License for the specific language governing permissions
11 # and limitations under the License.
12 #
13 # When distributing Covered Code, include this CDDL HEADER in each
14 # file and include the License file at usr/src/OPENSOLARIS.LICENSE.
15 # If applicable, add the following below this CDDL HEADER, with the
16 # fields enclosed by brackets "[]" replaced with your own identifying
17 # information: Portions Copyright [yyyy] [name of copyright owner]
18 #
19 # CDDL HEADER END
20 #

22 #
23 # Copyright (c) 2010, Oracle and/or its affiliates. All rights reserved.
24 #

26 include $(SRC)/Makefile.master
27 include $(SRC)/Makefile.buildnum

29 #
30 # Make sure we're getting a consistent execution environment for the
31 # embedded scripts.
32 #
33 SHELL= /usr/bin/ksh93

35 #
36 # To suppress package dependency generation on any system, regardless
37 # of how it was installed, set SUPPRESSPKGDEP=true in the build
38 # environment.
39 #
40 SUPPRESSPKGDEP= false

42 #
43 # Comment this line out or set "PKGDEBUG=" in your build environment
44 # to get more verbose output from the make processes in usr/src/pkg
45 #
46 PKGDEBUG= @

48 #
49 # Cross platform packaging notes
50 #
51 # By default, we package the proto area from the same architecture as
52 # the packaging build. In other words, if you're running nightly or
53 # bldenv on an x86 platform, it will take objects from the x86 proto
54 # area and use them to create x86 repositories.
55 #
56 # If you want to create repositories for an architecture that's
57 # different from $(uname -p), you do so by setting PKGMACH in your
58 # build environment.
59 #
60 # For this to work correctly, the following must all happen:
61 #

```

```

62 # 1. You need the desired proto area, which you can get either by
63 # doing a gatekeeper-style build with the -U option to
64 # nightly(1), or by using rsync. If you don't do this, you will
65 # get packaging failures building all packages, because pkgsend
66 # is unable to find the required binaries.
67 # 2. You need the desired tools proto area, which you can get in the
68 # same ways as the normal proto area. If you don't do this, you
69 # will get packaging failures building onbld, because pkgsend is
70 # unable to find the tools binaries.
71 # 3. The remainder of this Makefile should never refer directly to
72 # $(MACH). Instead, $(PKGMACH) should be used whenever an
73 # architecture-specific path or token is needed. If this is done
74 # incorrectly, then packaging will fail, and you will see the
75 # value of $(uname -p) instead of the value of $(PKGMACH) in the
76 # commands that fail.
77 # 4. Each time a rule in this Makefile invokes $(MAKE), it should
78 # pass PKGMACH=$(PKGMACH) explicitly on the command line. If
79 # this is done incorrectly, then packaging will fail, and you
80 # will see the value of $(uname -p) instead of the value of
81 # $(PKGMACH) in the commands that fail.
82 #
83 # Refer also to the convenience targets defined later in this
84 # Makefile.
85 #
86 PKGMACH= $(MACH)

88 #
89 # ROOT, TOOLS_PROTO, and PKGARCHIVE should be set by nightly or
90 # bldenv. These macros translate them into terms of $PKGMACH, instead
91 # of $ARCH.
92 #
93 PKGROOT.cmd= print $(ROOT) | sed -e s:/root_$(MACH):/root_$(PKGMACH):
94 PKGROOT= $(PKGROOT.cmd:sh)
95 TOOLSROOT.cmd= print $(TOOLS_PROTO) | sed -e s:/root_$(MACH):/root_$(PKGMACH):
96 TOOLSROOT= $(TOOLSROOT.cmd:sh)
97 PKGDEST.cmd= print $(PKGARCHIVE) | sed -e s:/$(MACH):/$(PKGMACH):/
98 PKGDEST= $(PKGDEST.cmd:sh)

100 EXCEPTIONS= packaging

102 PKGMOGRIFY= pkgmogrify

104 #
105 # Always build the redistributable repository, but only build the
106 # nonredistributable bits if we have access to closed source.
107 #
108 # Some objects that result from the closed build are still
109 # redistributable, and should be packaged as part of an open-only
110 # build. Access to those objects is provided via the closed-bins
111 # tarball. See usr/src/tools/scripts/bindrop.sh for details.
112 #
113 REPOS= redist

115 #
116 # The packages directory will contain the processed manifests as
117 # direct build targets and subdirectories for package metadata extracted
118 # incidentally during manifest processing.
119 #
120 # Nothing underneath $(PDIR) should ever be managed by SCM.
121 #
122 PDIR= packages.$(PKGMACH)

124 #
125 # The tools proto must be specified for dependency generation.
126 # Publication from the tools proto area is managed in the
127 # publication rule.

```

```

128 #
129 $(PDIR)/developer-build-onbld.dep:= PKGROOT= $(TOOLSROOT)

131 PKGPUBLISHER= $(PKGPUBLISHER_REDIST)

133 #
134 # To get these defaults, manifests should simply refer to $(PKGVERS).
135 #
136 PKGVERS_COMPONENT= 0.$(RELEASE)
137 PKGVERS_BUILTON= $(RELEASE)
138 PKGVERS_BRANCH= 0.$(ONNV_BUILDNUM)
139 PKGVERS= $(PKGVERS_COMPONENT),$(PKGVERS_BUILTON)-$(PKGVERS_BRANCH)

141 #
142 # The ARCH32 and ARCH64 macros are used in the manifests to express
143 # architecture-specific subdirectories in the installation paths
144 # for isaexec'd commands.
145 #
146 # We can't simply use $(MACH32) and $(MACH64) here, because they're
147 # only defined for the build architecture. To do cross-platform
148 # packaging, we need both values.
149 #
150 i386_ARCH32= i86
151 sparc_ARCH32= sparcv7
152 i386_ARCH64= amd64
153 sparc_ARCH64= sparcv9

155 OPENSSL = /usr/bin/openssl
156 OPENSSL10.cmd = $(OPENSSL) version | $(NAWK) '{if($$2<1){print "\043";}}'
157 OPENSSL10_ONLY = $(OPENSSL10.cmd:sh)

155 #
156 # macros and transforms needed by pkgmogrify
157 #
158 # If you append to this list using target-specific assignments (:=),
159 # be very careful that the targets are of the form $(PDIR)/pkgname. If
160 # you use a higher level target, or a package list, you'll trigger a
161 # complete reprocessing of all manifests because they'll fail command
162 # dependency checking.
163 #
164 PM_TRANSFORMS= common_actions publish restart_fmri facets defaults \
165 extract_metadata
166 PM_INC= transforms manifests

168 PKGMOG_DEFINES= \
169 i386_ONLY=$(POUND_SIGN) \
170 sparc_ONLY=$(POUND_SIGN) \
175 OPENSSL10_ONLY=$(OPENSSL10_ONLY) \
171 $(PKGARCH)_ONLY= \
172 ARCH=$(PKGARCH) \
173 ARCH32=$( $(PKGARCH)_ARCH32) \
174 ARCH64=$( $(PKGARCH)_ARCH64) \
175 PKGVERS_COMPONENT=$(PKGVERS_COMPONENT) \
176 PKGVERS_BUILTON=$(PKGVERS_BUILTON) \
177 PKGVERS_BRANCH=$(PKGVERS_BRANCH) \
178 PKGVERS=$(PKGVERS)

180 PKGDEP_TOKENS_i386= \
181 'PLATFORM=i86hvm' \
182 'PLATFORM=i86pc' \
183 'PLATFORM=i86xpv' \
184 'ISALIST=amd64' \
185 'ISALIST=i386'
186 PKGDEP_TOKENS_sparc= \
187 'PLATFORM=sun4u' \
188 'PLATFORM=sun4v' \

```

```

189 'ISALIST=sparcv9' \
190 'ISALIST=sparc'
191 PKGDEP_TOKENS= $(PKGDEP_TOKENS_$(PKGARCH))

193 #
194 # The package lists are generated with $(PKGDEP_TYPE) as their
195 # dependency types, so that they can be included by either an
196 # incorporation or a group package.
197 #
198 $(PDIR)/osnet-redis.mog := PKGDEP_TYPE= require
199 $(PDIR)/osnet-incorporation.mog:= PKGDEP_TYPE= incorporate

201 PKGDEP_INCORP= \
202 depend fmri=consolidation/osnet/osnet-incorporation type=require

204 #
205 # All packaging build products should go into $(PDIR), so they don't
206 # need to be included separately in CLOBBERFILES.
207 #
208 CLOBBERFILES= $(PDIR) proto_list_$(PKGARCH)

210 #
211 # By default, PKGS will list all manifests. To build and/or publish a
212 # subset of packages, override this on the command line or in the
213 # build environment and then reference (implicitly or explicitly) the all
214 # or install targets.
215 #
216 MANIFESTS :sh= (cd manifests; print *.mf)
217 PKGS= $(MANIFESTS:%.mf=)
218 DEP_PKGS= $(PKGS:%=$(PDIR)/%.dep)
219 PROC_PKGS= $(PKGS:%=$(PDIR)/%.mog)

221 #
222 # Track the synthetic manifests separately so we can properly express
223 # build rules and dependencies. The synthetic and real packages use
224 # different sets of transforms and macros for pkgmogrify.
225 #
226 SYNTH_PKGS= osnet-incorporation osnet-redis
227 DEP_SYNTH_PKGS= $(SYNTH_PKGS:%=$(PDIR)/%.dep)
228 PROC_SYNTH_PKGS= $(SYNTH_PKGS:%=$(PDIR)/%.mog)

230 #
231 # Root of pkg image to use for dependency resolution
232 # Normally / on the machine used to build the binaries
233 #
234 PKGDEP_RESOLVE_IMAGE = /

236 #
237 # For each package, we determine the target repository based on
238 # manifest-embedded metadata. Because we make that determination on
239 # the fly, the publication target cannot be expressed as a
240 # subdirectory inside the unknown-by-the-makefile target repository.
241 #
242 # In order to limit the target set to real files in known locations,
243 # we use a ".pub" file in $(PDIR) for each processed manifest, regardless
244 # of content or target repository.
245 #
246 PUB_PKGS= $(SYNTH_PKGS:%=$(PDIR)/%.pub) $(PKGS:%=$(PDIR)/%.pub)

248 #
249 # Any given repository- and status-specific package list may be empty,
250 # but we can only determine that dynamically, so we always generate all
251 # lists for each repository we're building.
252 #
253 # The meanings of each package status are as follows:
254 #

```

```

255 #      PKGSTAT      meaning
256 #      -----
257 #      noincorp     Do not include in incorporation or group package
258 #      obsolete     Include in incorporation, but not group package
259 #      renamed      Include in incorporation, but not group package
260 #      current      Include in incorporation and group package
261 #
262 # Since the semantics of the "noincorp" package status dictate that
263 # such packages are not included in the incorporation or group packages,
264 # there is no need to build noincorp package lists.
265 #
266 PKGLISTS= \
267   $(REPOS:%=$(PDIR)/packages.%.current) \
268   $(REPOS:%=$(PDIR)/packages.%.renamed) \
269   $(REPOS:%=$(PDIR)/packages.%.obsolete)
271 .KEEP_STATE:
273 .PARALLEL: $(PKGS) $(PROC_PKGS) $(DEP_PKGS) \
274   $(PROC_SYNTH_PKGS) $(DEP_SYNTH_PKGS) $(PUB_PKGS)
276 #
277 # For a single manifest, the dependency chain looks like this:
278 #
279 #   raw manifest (mypkg.mf)
280 #   |
281 #   | use pkgmogrify to process raw manifest
282 #   |
283 #   processed manifest (mypkg.mog)
284 #   |
285 #   | * use pkgdepend generate to generate dependencies
286 #   |
287 #   manifest with TBD dependencies (mypkg.dep)
288 #   |
289 #   | % use pkgdepend resolve to resolve dependencies
290 #   |
291 #   manifest with dependencies resolved (mypkg.res)
292 #   |
293 #   | use pkgsend to publish the package
294 #   |
295 #   placeholder to indicate successful publication (mypkg.pub)
296 #
297 # * This may be suppressed via SUPPRESSPKGDEP. The resulting
298 # packages will install correctly, but care must be taken to
299 # install all dependencies, because pkg will not have the input
300 # it needs to determine this automatically.
301 #
302 # % This is included in this diagram to make the picture complete, but
303 # this is a point of synchronization in the build process.
304 # Dependency resolution is actually done once on the entire set of
305 # manifests, not on a per-package basis.
306 #
307 # The full dependency chain for generating everything that needs to be
308 # published, without actually publishing it, looks like this:
309 #
310 #   processed synthetic packages
311 #   |
312 #   | package lists      | synthetic package manifests
313 #   |
314 #   processed real packages
315 #   |
316 #   | package dir      | real package manifests
317 #   |
318 # Here, each item is a set of real or synthetic packages. For this
319 # portion of the build, no reference is made to the proto area. It is
320 # therefore suitable for the "all" target, as opposed to "install."

```

```

321 #
322 # Since each of these steps is expressed explicitly, "all" need only
323 # depend on the head of the chain.
324 #
325 # From the end of manifest processing, the publication dependency
326 # chain looks like this:
327 #
328 #   repository metadata (catalogs and search indices)
329 #   |
330 #   | pkg.depotd
331 #   |
332 #   published packages
333 #   |
334 #   | pkgsend publish
335 #   |
336 #   repositories      resolved dependencies
337 #   |
338 #   | pkgdepend resolve
339 #   | create-repository
340 #   |
341 #   | generated dependencies
342 #   |
343 #   | pkgdepend
344 #   |
345 #   processed manifests
347 ALL_TARGETS= $(PROC_SYNTH_PKGS) proto_list_$(PKGARCH)
349 all: $(ALL_TARGETS)
351 #
352 # This will build the directory to contain the processed manifests
353 # and the metadata symlinks.
354 #
355 $(PDIR):
356   @print "Creating $(@)"
357   $(PKGDEBUG)$(INS.dir)
359 #
360 # This rule resolves dependencies across all published manifests.
361 #
362 # We shouldn't have to ignore the error from pkgdepend, but until
363 # 16012 and its dependencies are resolved, pkgdepend will always exit
364 # with an error.
365 #
366 $(PDIR)/gendeps: $(DEP_SYNTH_PKGS) $(DEP_PKGS)
367   -$(PKGDEBUG)if [ "$$(SUPPRESSPKGDEP)" = "true" ]; then \
368     print "Suppressing dependency resolution"; \
369     for p in $(DEP_PKGS:%.dep=%); do \
370       $(CP) $$p.dep $$p.res; \
371     done; \
372   else \
373     print "Resolving dependencies"; \
374     pkgdepend -R $(PKGDEP_RESOLVE_IMAGE) resolve \
375       -m $(DEP_SYNTH_PKGS) $(DEP_PKGS); \
376     for p in $(DEP_SYNTH_PKGS:%.dep=%) $(DEP_PKGS:%.dep=%); do \
377       if [ "$$(print $$p.metadata.*)" = \
378         "$$(print $$p.metadata.noincorp.*)" ]; \
379     then \
380       print "Removing dependency versions from $$p"; \
381       $(PKGMOGRIFY) $(PKGMOG_VERBOSE) \
382         -O $$p.res -I transforms \
383         strip_versions $$p.dep.res; \
384       $(RM) $$p.dep.res; \
385     else \
386       $(MV) $$p.dep.res $$p.res; \

```

```

387             fi; \
388         done; \
389     fi
390     $(PKGDEBUG)$ (TOUCH) $(@)

392 install: $(ALL_TARGETS) repository-metadata

394 repository-metadata: publish_pkgs
395     @print "Creating repository metadata"
396     $(PKGDEBUG)for r in $(REPOS); do \
397         /usr/lib/pkg.depotd -d $(PKGDEST)/repo.$$r \
398             --add-content --exit-ready; \
399     done

401 #
402 # Since we create zero-length processed manifests for a graceful abort
403 # from pkgmgrify, we need to detect that here and make no effort to
404 # publish the package.
405 #
406 # For all other packages, we publish them regardless of status. We
407 # derive the target repository as a component of the metadata-derived
408 # symlink for each package.
409 #
410 publish_pkgs: $(REPOS:%=$(PKGDEST)/repo.%) $(PDIR)/gendeps .WAIT $(PUB_PKGS)

412 #
413 # Before publishing, we want to pull the license files from $CODEMGR_WS
414 # into the proto area. This allows us to NOT pass $SRC (or
415 # $CODEMGR_WS) as a basedir for publication.
416 #
417 $(PUB_PKGS): stage-licenses

419 #
420 # Initialize the empty on-disk repositories
421 #
422 $(REPOS:%=$(PKGDEST)/repo.%) :
423     @print "Initializing $(@F)"
424     $(PKGDEBUG)$ (INS.dir)
425     $(PKGDEBUG)pkgsend -s file://$(@) create-repository \
426         --set-property publisher.prefix=$(PKG PUBLISHER)

428 #
429 # rule to process real manifests
430 #
431 # To allow redistributability and package status to change, we must
432 # remove not only the actual build target (the processed manifest), but
433 # also the incidental ones (the metadata-derived symlinks).
434 #
435 # If pkgmgrify exits cleanly but fails to create the specified output
436 # file, it means that it encountered an abort directive. That means
437 # that this package should not be published for this particular build
438 # environment. Since we can't prune such packages from $(PKGS)
439 # retroactively, we need to create an empty target file to keep make
440 # from trying to rebuild it every time. For these empty targets, we
441 # do not create metadata symlinks.
442 #
443 # Automatic dependency resolution to files is also done at this phase of
444 # processing. The skipped packages are skipped due to existing bugs
445 # in pkgdepend.
446 #
447 # The incorporation dependency is tricky: it needs to go into all
448 # current and renamed manifests (ie all incorporated packages), but we
449 # don't know which those are until after we run pkgmgrify. So
450 # instead of expressing it as a transform, we tack it on ex post facto.
451 #
452 # Implementation notes:

```

```

453 #
454 # - The first $(RM) must not match other manifests, or we'll run into
455 # race conditions with parallel manifest processing.
456 #
457 # - The make macros [ie $(MACRO)] are evaluated when the makefile is
458 # read in, and will result in a fixed, macro-expanded rule for each
459 # target enumerated in $(PROC_PKGS).
460 #
461 # - The shell variables (ie $$VAR) are assigned on the fly, as the rule
462 # is executed. The results may only be referenced in the shell in
463 # which they are assigned, so from the perspective of make, all code
464 # that needs these variables needs to be part of the same line of
465 # code. Hence the use of command separators and line continuation
466 # characters.
467 #
468 # - The extract_metadata transforms are designed to spit out shell
469 # variable assignments to stdout. Those are published to the
470 # .vars temporary files, and then used as input to the eval
471 # statement. This is done in stages specifically so that pkgmgrify
472 # can signal failure if the manifest has a syntactic or other error.
473 # The eval statement should begin with the default values, and the
474 # output from pkgmgrify (if any) should be in the form of a
475 # variable assignment to override those defaults.
476 #
477 # - When this rule completes execution, it must leave an updated
478 # target file ($@) in place, or make will reprocess the package
479 # every time it encounters it as a dependency. Hence the "touch"
480 # statement to ensure that the target is created, even when
481 # pkgmgrify encounters an abort in the publish transforms.
482 #

484 .SUFFIXES: .mf .mog .dep .res .pub

486 $(PDIR)/%.mog: manifests/%.mf
487     @print "Processing manifest $(<F)"
488     @env PKGFMT_OUTPUT=v1 pkgfmt -c <
489     $(PKGDEBUG)$ (RM) $(@) $(@:%.mog=) $(@:%.mog=) \
490         $(@:%.mog=.lics) $(PDIR)/$(@F:%.mog=).metadata.* $(@).vars
491     $(PKGDEBUG)$ (PKG MGRIFY) $(PKG M V B O S E) $(P M _ I N C : % = - I %) \
492         $(PKG M O G _ D E F I N E S : % = - D %) -P $(@).vars -O $(@) \
493         $(<) $(P M _ T R A N S F O R M S)
494     $(PKGDEBUG)eval REPO=redist PKGSTAT=current NODEPEND=$(SUPPRESSPKGDEP) \
495         $(CAT) -s $(@).vars; \
496     if [ -f $(@) ]; then \
497         if [ "$$NODEPEND" != "false" ]; then \
498             $(TOUCH) $(@:%.mog=.nodepend); \
499         fi; \
500     $(LN) -s $(@F) \
501         $(PDIR)/$(@F:%.mog=).metadata.$$PKGSTAT.$$REPO; \
502     if [ \{( "$$PKGSTAT" = "current" \) -o \
503         \{( "$$PKGSTAT" = "renamed" \) \} ]; \
504         then print $(PKGDEP_INCORP) >> $(@); \
505     fi; \
506     print $$LICS > $(@:%.mog=.lics); \
507     else \
508         $(TOUCH) $(@) $(@:%.mog=.lics); \
509     fi
510     $(PKGDEBUG)$ (RM) $(@).vars

512 $(PDIR)/%.dep: $(PDIR)/%.mog
513     @print "Generating dependencies for $(<F)"
514     $(PKGDEBUG)$ (RM) $(@)
515     $(PKGDEBUG)if [ ! -f $(@:%.dep=.nodepend) ]; then \
516         pkgdepend generate -m $(PKGDEP_TOKENS:%=-D %) $(<) \
517             $(PKGROOT) > $(@); \
518     else \

```

```

519         $(CP) $(<) $(@); \
520     fi

522 #
523 # The full chain implies that there should be a .dep.res suffix rule,
524 # but dependency generation is done on a set of manifests, rather than
525 # on a per-manifest basis. Instead, see the gendeps rule above.
526 #

528 $(PDIR)/%.pub: $(PDIR)/%.res
529     $(PKGDEBUG)m=${$(basename $(@:%.pub=%)}.metadata.*); \
530     r=${m#$(@F:%.pub=%).metadata.+(?)}.}; \
531     if [ -s $(<) ]; then \
532         print "Publishing $(@F:%.pub=) to $$r repository"; \
533         pkgsend -s file://$(PKGDEST)/repo.$$r publish \
534             -d $(PKGROOT) -d $(TOOLSROOT) \
535             -d license_files -d $(PKGROOT)/licenses \
536             --fmri-in-manifest --no-index --no-catalog $(<) \
537             > /dev/null; \
538     fi; \
539     $(TOUCH) $(@);

541 #
542 # rule to build the synthetic manifests
543 #
544 # This rule necessarily has PKGDEP_TYPE that changes according to
545 # the specific synthetic manifest. Rather than escape command
546 # dependency checking for the real manifest processing, or failing to
547 # express the (indirect) dependency of synthetic manifests on real
548 # manifests, we simply split this rule out from the one above.
549 #
550 # The implementation notes from the previous rule are applicable
551 # here, too.
552 #
553 $(PROC_SYNTH_PKGS): $(PKGLISTS) ${@F:%.mog=%.mf}
554     @print "Processing synthetic manifest $(@F:%.mog=%.mf)"
555     $(PKGDEBUG)$ (RM) $(@) $(PDIR)/${@F:%.mog=%}.metadata.* $(@).vars
556     $(PKGDEBUG)$ (PKGMOGRIFY) $(PKGMOG_VERBOSE) -I $(PDIR) \
557         $(PKGMOG_DEFINES:%=-D %) -D PKGDEP_TYPE=$(PKGDEP_TYPE) \
558         -P $(@).vars -O $(@) $@F:%.mog=%.mf) \
559         $(PM_TRANSFORMS) synthetic
560     $(PKGDEBUG)eval REPO=redist PKGSTAT=current `$(CAT) -s $(@).vars`; \
561     if [ -f $(@) ]; then \
562         $(LN) -s $@F) \
563         $(PDIR)/${@F:%.mog=%}.metadata.$$PKGSTAT.$$REPO; \
564     else \
565         $(TOUCH) $(@); \
566     fi
567     $(PKGDEBUG)$ (RM) $(@).vars

569 $(DEP_SYNTH_PKGS): ${@:%.dep=%.mog}
570     @print "Skipping dependency generation for $(@F:%.dep=%)"
571     $(PKGDEBUG)$ (CP) $@:%.dep=%.mog) $(@)

573 clean:

575 clobber: clean
576     $(RM) -r $(CLOBBERFILES)

578 #
579 # This rule assumes that all links in the $PKGSTAT directories
580 # point to valid manifests, and will fail the make run if one
581 # does not contain an fmri.
582 #
583 # We do this in the BEGIN action instead of using pattern matching
584 # because we expect the fmri to be at or near the first line of each input

```

```

585 # file, and this way lets us avoid reading the rest of the file after we
586 # find what we need.
587 #
588 # We keep track of a failure to locate an fmri, so we can fail the
589 # make run, but we still attempt to process each package in the
590 # repo/pkgstat-specific subdir, in hopes of maybe giving some
591 # additional useful info.
592 #
593 # The protolist is used for bfu archive creation, which may be invoked
594 # interactively by the user. Both protolist and PKGLISTS targets
595 # depend on $(PROC_PKGS), but protolist builds them recursively.
596 # To avoid collisions, we insert protolist into the dependency chain
597 # here. This has two somewhat subtle benefits: it allows bfu archive
598 # creation to work correctly, even when -a was not part of NIGHTLY_OPTIONS,
599 # and it ensures that a protolist file here will always correspond to the
600 # contents of the processed manifests, which can vary depending on build
601 # environment.
602 #
603 $(PKGLISTS): $(PROC_PKGS)
604     $(PKGDEBUG)sdotr=${@F:packages.%=}; \
605     r=${sdotr%.+(?)}; s=${sdotr#+(?)}.}; \
606     print "Generating $$r $$s package list"; \
607     $(RM) $(@); $(TOUCH) $(@); \
608     $(NAWK) 'BEGIN { \
609         if (ARGC < 2) { \
610             exit; \
611         } \
612         retcode = 0; \
613         for (i = 1; i < ARGC; i++) { \
614             do { \
615                 e = getline f < ARGV[i]; \
616                 while ((e == 1) && (f !~ /name=pkg.fmri/)); \
617                 close(ARGV[i]); \
618                 if (e == 1) { \
619                     l = split(f, a, "="); \
620                     print "depend fmri=" a[1], \
621                         "type=$(PKGDEP_TYPE)"; \
622                 } else { \
623                     print "no fmri in " ARGV[i] >> "/dev/stderr"; \
624                     retcode = 2; \
625                 } \
626             } \
627             exit retcode; \
628         }' `find $(PDIR) -type l -a \( $(PKGS:%=-name %.metadata.$$s.$$r -o) \
629             -name NOSUCHFILE \)` >> $(@)

631 #
632 # rules to validate proto area against manifests, check for safe
633 # file permission modes, and generate a faux proto list
634 #
635 # For the check targets, the dependencies on $(PROC_PKGS) is specified
636 # as a subordinate make process in order to suppress output.
637 #
638 makesilent:
639     @$(MAKE) -e $(PROC_PKGS) PKGMACH=$(PKGMACH) \
640         SUPPRESSPKGDEP=$(SUPPRESSPKGDEP) > /dev/null

642 #
643 # The .lics files were created during pkgmogrification, and list the
644 # set of licenses to pull from $SRC for each package. Because
645 # licenses may be duplicated between packages, we uniquify them as
646 # well as aggregating them here.
647 #
648 license-list: makesilent
649     $(PKGDEBUG)( for l in `cat $(PROC_PKGS:%.mog=%.lics)`; \
650         do print $$l; done ) | sort -u > $@

```

```

652 #
653 # Staging the license and description files in the proto area allows
654 # us to do proper unreferenced file checking of both license and
655 # description files without blanket exceptions, and to pull license
656 # content without reference to $CODEMGR_WS during publication.
657 #
658 stage-licenses: license-list FRC
659     $(PKGDEBUG)$ (MAKE) -e -f Makefile.lic \
660     PKGDEBUG=$(PKGDEBUG) LICROOT=$(PKGROOT)/licenses \
661     `$(NAWK) '{ \
662         print "$(PKGROOT)/licenses/" $$0; \
663         print "$(PKGROOT)/licenses/" $$0 ".descrip"; \
664     }' license-list` > /dev/null;
666 protocmp: makesilent
667     @validate_pkg -a $(PKGARCH) -v \
668     $(EXCEPTIONS:%=-e $(CODEMGR_WS)/exception_lists/%) \
669     -m $(PDIR) -p $(PKGROOT) -p $(TOOLSROOT)
671 pmodes: makesilent
672     @validate_pkg -a $(PKGARCH) -M -m $(PDIR) \
673     -e $(CODEMGR_WS)/exception_lists/pmodes
675 check: protocmp pmodes
677 protolist: proto_list_$(PKGARCH)
679 proto_list_$(PKGARCH): $(PROC_PKGS)
680     @validate_pkg -a $(PKGARCH) -L -m $(PDIR) > $(@)
682 $(PROC_PKGS): $(PDIR)
684 #
685 # This is a convenience target to allow package names to function as
686 # build targets. Generally, using it is only useful when iterating on
687 # development of a manifest.
688 #
689 # When processing a manifest, use the basename (without extension) of
690 # the package. When publishing, use the basename with a ".pub"
691 # extension.
692 #
693 # Other than during manifest development, the preferred usage is to
694 # avoid these targets and override PKGS on the make command line and
695 # use the provided all and install targets.
696 #
697 $(PKGS) $(SYNTH_PKGS): $(PDIR)/$$(@:%=.mog)
699 $(PKGS:%=%.pub) $(SYNTH_PKGS:%=%.pub): $(PDIR)/$$(@)
701 #
702 # This is a convenience target to resolve dependencies without publishing
703 # packages.
704 #
705 gendeps: $(PDIR)/gendeps
707 #
708 # These are convenience targets for cross-platform packaging. If you
709 # want to build any of "the normal" targets for a different
710 # architecture, simply use "arch/target" as your build target.
711 #
712 # Since the most common use case for this is "install," the architecture
713 # specific install targets have been further abbreviated to elide "/install."
714 #
715 i386/% sparc/%:
716     $(MAKE) -e $(@F) PKGMACH=$(@D) SUPPRESSPKGDEP=$(SUPPRESSPKGDEP)

```

```

718 i386 sparc: $$(@)/install
720 FRC:
722 # EXPORT DELETE START
723 XMOD_PKGS= \
724     BRCmbnx \
725     BRCmbnxe \
726     SUNwadpu320 \
727     SUNwibsdpib \
728     SUNwkdc \
729     SUNwlsimaga \
730     SUNWwbint \
731     SUNWwbsup
733 EXPORT_SRC: CRYPT_SRC
734     $(RM) $(XMOD_PKGS:%=manifests/%.mf)
735     $(RM) Makefile+
736     $(SED) -e "/^# EXPORT DELETE START/,/^# EXPORT DELETE END/d" \
737     < Makefile > Makefile+
738     $(MV) -f Makefile+ Makefile
739     $(CHMOD) 444 Makefile
740 # EXPORT DELETE END

```