

# Maintainer's Guide

## Getting Started

1. Setting up the unified build system
2. Packaging workflow
3. Areas of contribution
4. Documentation resources
5. Additional resources

## Overview of the Build System

1. Hierarchy
  - a. Description
  - b. Categories
  - c. Meta-packages
2. Component structure
  - a. Files
  - b. Makefile targets
  - c. Testing
  - d. Recommendations
3. IPS manifests
  - a. Manifest generation
  - b. Package actions
  - c. Transforms
  - d. Variants and facets
  - e. Incorporations
  - f. Linting
4. Package repositories
  - a. On-disk repositories
  - b. Remote repositories
  - c. Working with a pkg(5) server

## Common Tasks

1. Updating an existing component
  - a. Version bump
  - b. Patches and security fixes
2. Creating a new component
3. Deprecating a component
4. Renaming a component
5. Submitting a component for review
6. Using pkg(5) for packaging tasks
7. Best practices

## Specific Packaging Rules

1. Component templates for build systems
2. Software specific make-rules
3. External software gates
  - a. illumos-gate
  - b. gfx-drm
4. Advanced packaging rules
  - a. Python
  - b. Perl
  - c. MPI

## Continuous Integration

1. Using Jenkins for OpenIndiana Hipster
2. Build server workflow
3. Setting up incremental builds
4. Troubleshooting

