Basis *usr/gapps* layout

/usr/gapps

basis

(LC)

<arch>:
/usr/apps
/usr/local/apps

(11.12,12.0,new,exp)   links $SYS_TYPE

(A/X-Div)

basis(old,.,new,exp)

dev   <arch>   basis(old,.,new,exp)

<arch>   basis(old,.,new,exp)

bin,lib,...
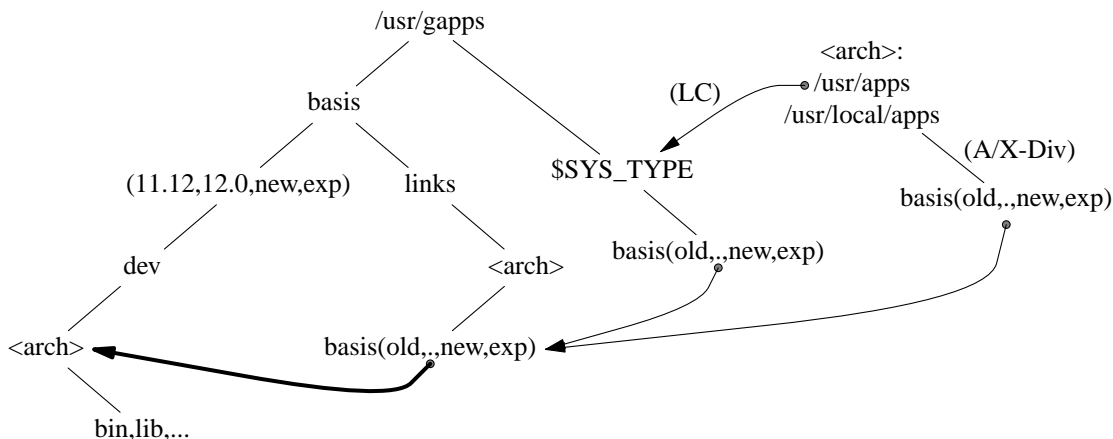
In the figure above, the thicker arrow represents transitory symbolic links, re-made with the successive updates of the Basis system. The thinner arrows show semi-permanent links that should not need to be changed "for a long time." At LC, */usr/apps* is a per-architecture symbolic link to */usr/gapps/$SYS_TYPE*, where *$SYS_TYPE* is *tru64_4*, *aix_4*, etc. On the A/X-Division network, */usr/apps* continues to be a separate per-architecture filesystem, containing (among other things) the four Basis-related symbolic links. If and when A/X adopts a model entirely parallel to LC, the names of the architecture-specific subdirectories of */usr/gapps* are yet to be determined. However, beneath */usr/gapps/basis*, on all networks, *<arch>* is the value returned by running *cpu -r*.

There are four releases of basis available to users at a given time: *basisold*, *basis*, *basisnew*, and *basisexp*. At present, on most platforms, the following relationships are (will be) true:

NAME	VERSION
basisold	11.12
basis	12.0
basisnew	updated for new functionality needed by client codes.
basisexp	most recent tested copy – about one day old.

Although permissions on */usr/gapps/$SYS_TYPE* at LC allow anyone to create symbolic links, they also impose a restriction that only the link *owner* can change it later. This makes group participation in basis updating problematic. This is why the extra layer of symbolic links at *links/<arch>* is included in the layout. The contents of these links will include a specific version number, such as 12.0, or else will point to the directories *new* or *exp*. *Exp* is understood to contain the latest basis version that has passed all (daily) automatic testing. *New* is updated to incorporate new features that A/X client codes need from Basis, whenever that need occurs. Release of a new version implies some hand updating of links under *basis/links/<arch>*.

On the X-Division closed network, the layout shown is (will be) approximately correct, with the substitution of */dist/basis* for */usr/gapps/basis*.