

Document Release 1.0 for Run-time Library Release 4.3

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Tools and samples for linking the library to the overlay

In this sample /psx/sample/module/overmenu is used as an example  
and libgs is linked to rcube.bin rather than to main.

The operation can be roughly divided into two parts:

1) Rebuilding libgs.lib

Since libgs.lib is linked as is to main, it must be modified. As a result, the group/section information within each OBJ included in libgs.lib must be rewritten. In this sample libgs2.lib for linking to rcube is created. prefsect.exe is the tool which rewrites the group/section information within the obj file. An explanation of prefsect is attached at the end of this text.

```
> cd libgs2
> psylib /x libgs.lib    Breaks down libgs into obj units.
                        Uses psylib ver.2.04
> make                  Makes libgs2.lib. Please use the general
                        make.
> copy libgs2.lib . .
```

2) Linking the rebuilt libgs.lib.

Links the rebuilt libgs2 (for rcube) rather than the normal libgs. In this sample only the menu.lnk line has been rewritten.

```
> cd . .
> psymake
```

(Supplement)

Since libgs2 is completely linked as a group rcube in this sample it does not make sense to call the libgs function from another overlay module (balls, anim). If you would like to use the libgs function from within another module, linking must be performed not as lib, but individually as obj. For your reference the sample distributed by SN Systems has been placed in a special SN directory. Here linking is performed not by lib, but rather by obj units.

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(prefsect usage method)

prefsect [options] infile outfile prefix

options: -g create a group of the same name as the prefix and  
put all sections in this group

Example:

```
> prefsect aaa.obj bbb.obj grpl
    Attach the grpl prefix to all sections within aaa.obj
    For example, .text would be rewritten as grpl.text

> prefsect -g aaa.obj bbb.obj grpl
    Attach the grpl prefix to all sections within aaa.obj and
    then collect all the sections together to create a grpl group.
```