## common-lisp-config.lisp

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## 1 Variables

\*LISP-OUT-DIR\* defines what the root directory of the generated Common Lisp bindings should be. I only run the bindings generator from Slime after having done a "slime-cd" to the "bindings-generator" directory, so keep this in mind!

Also, "okra-bindings.asd" is actually placed at "(mkstr \*lisp-out-dir\* "..")", so keep that in mind as well :-)

```
(defparameter *lisp-out-dir* "generated/src-bindings/")
(defparameter *lisp-files* nil) ; for ASDF
(defparameter *lisp-symbols* nil) ; for package.lisp
```

I've declared a lot of crap here as a :pointer of which I don't even know what it is. (Generally camelCaps names that don't end with a '\*' or 'Ptr'.)

Also, with the advent of support for overloaded functions and the additional mess that comes with it, all cdr's should become function calls or plist or whatever so the mapping for overloaded types can be merged with this table AND so we can do away with a lot of checks in the code that checks whether the cdr is either a string or a symbol.

I could really shorten this list if I don't lookup simple types and handle everything not in this list as a cl-pointer.

```
(defparameter *lisp-type-mapping*
  '(;; standard types
    ("void" . cl-void)
    ("bool" . cl-boolean)
    ("double" . cl-simple-type)
    ("float" . cl-simple-type)
    ("int" . cl-simple-type)
    ("long" . cl-simple-type)
    ("size_t" . cl-size-t)
    ("std::string" . cl-string)
    ("uchar" . cl-simple-type)
```

```
("uint" . cl-simple-type)
("uint8" . cl-simple-type)
("uint16" . cl-simple-type)
("uint32" . cl-simple-type)
("ushort" . cl-simple-type)
("unsigned char" . cl-simple-type)
("unsigned int" . cl-unsigned-int)
("unsigned long" . cl-simple-type)
("unsigned long long" . cl-simple-type)
("unsigned short" . cl-simple-type)
("time_t" . cl-long) ; at least on my machine :-)
;; Ogre types
("AxisAlignedBox" . cl-array6) ; does this compute with cpp-config.lisp?
("AnimableValuePtr" . cl-pointer)
("AnimationIterator" . cl-pointer)
("AnimationStateIterator" . cl-pointer)
("CameraIterator" . cl-pointer)
("ChildNodeIterator" . cl-pointer)
("ChildObjectListIterator" . cl-pointer)
("ConstChildNodeIterator" . cl-pointer)
("ConstObjectIterator" . cl-pointer)
("ConstShadowTextureConfigIterator" . cl-pointer)
("DataStreamListPtr" . cl-pointer)
("DataStreamPtr" . cl-pointer)
("FileInfoListPtr" . cl-pointer)
("Light::LightTypes" . cl-light-types)
("Matrix3" . cl-array9)
("MeshPtr" . cl-pointer)
("SceneManagerEnumerator::MetaDataIterator" . cl-pointer)
("MovableObjectFactoryIterator" . cl-pointer)
("MovableObjectIterator" . cl-pointer)
("ObjectIterator" . cl-pointer)
("Overlay2DElementsIterator" . cl-pointer)
("OverlayMapIterator" . cl-pointer)
\hbox{("PlaneBoundedVolume" . cl-pointer)}\\
("Ray" . cl-array6)
("Real" . cl-okra-real)
("RenderOperation::OperationType" . cl-operation-type)
("RenderSystemList*" . cl-render-system-list)
("ResourceDeclarationList" . cl-pointer)
("ResourceManagerIterator" . cl-pointer)
("SceneManagerEnumerator::SceneManagerIterator" . cl-pointer)
("ShadowRenderableListIterator" . cl-pointer)
("String" . cl-string)
("StringVector" . cl-pointer)
("StringVectorPtr" . cl-pointer)
("TemplateIterator" . cl-pointer)
("TransformSpace" . cl-pointer)
("UTFString" . cl-string)
("Vector2" . cl-array2)
```

```
("Vector3" . cl-array3)
("Vector4" . cl-array4)
("ViewPoint" . cl-pointer)
("const String&" . cl-string)
("const AxisAlignedBox&" . cl-array6)
("const ColourValue&" . cl-array4)
("const DisplayString&" . cl-string)
("const Matrix3&" . cl-array9)
("const Matrix4&" . cl-array16)
("const Quaternion&" . cl-array4)
("const Plane&" . cl-plane)
("const Radian&" . cl-okra-real)
("const Sphere&" . cl-array4)
("const String&" . cl-array4)
("const Vector2&" . cl-array2)
("const Vector3&" . cl-array3)
("const Vector3*" . cl-array4)
("const Vector3*" . cl-array3)))
```