**XtConvert, XtDirectConvert** – invoke resource converters

```c
void XtConvert(w, from_type, from, to_type, to_return)

Widget w;
String from_type;
XrmValuePtr from;
String to_type;
XrmValuePtr to_return;
```

```c
void XtDirectConvert(converter, args, num_args, from, to_return)

XtConverter converter;
XrmValuePtr args;
Cardinal num_args;
XrmValuePtr from;
XrmValuePtr to_return;
```

- **args** Specifies the argument list that contains the additional arguments needed to perform the conversion (often NULL).
- **converter** Specifies the conversion procedure that is to be called.
- **from** Specifies the value to be converted.
- **from_type** Specifies the source type.
- **num_args** Specifies the number of additional arguments (often zero).
- **to_type** Specifies the destination type.
- **to_return** Returns the converted value.
- **w** Specifies the widget to use for additional arguments (if any are needed).

The **XtConvert** function looks up the type converter registered to convert **from_type** to **to_type**, computes any additional arguments needed, and then calls **XtDirectConvert**. **XtConvert** has been replaced by **XtConvertAndStore**.

The **XtDirectConvert** function looks in the converter cache to see if this conversion procedure has been called with the specified arguments. If so, it returns a descriptor for information stored in the cache; otherwise, it calls the converter and enters the result in the cache.

Before calling the specified converter, **XtDirectConvert** sets the return value size to zero and the return value address to NULL. To determine if the conversion was successful, the client should check **to_return.address** for non-NULL. **XtDirectConvert** has been replaced by **XtCallConverter**.

**XtAppAddConverter(3Xt)**, **XtStringConversionWarning(3Xt)**, **XtConvertAndStore(3Xt)**, **XtCallConverter(3Xt)**

*X Toolkit Intrinsics – C Language Interface*

*Xlib – C Language X Interface*