

Contents

1 Module XmlRpc : XmlRpc Light

1

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XmlRpc Light is a minimal XmlRpc client based on Xml Light and Ocamlnet.

It provides a type for values, a client class with a simple calling interface, and low-level tools that can be used to implement a server.

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High-level interface

Example:

```
let rpc = new XmlRpc.client "http://localhost:8000" in
let result = rpc#call "echo" ['String "hello!"] in
print_endline (XmlRpc.dump result)
```

exception Error of (int * string)

Raised for all errors including XmlRpc faults (code, string).

```
type value = [ 'Array of value list
| 'Binary of string
| 'Boolean of bool
| 'DateTime of int * int * int * int * int * int * int
| 'Double of float
| 'Int of int
| 'String of string
| 'Struct of (string * value) list ]
```

Polymorphic variant type for XmlRpc values:

- 'Array: An ordered list of values
- 'Binary: A string containing binary data
- 'Boolean: A boolean
- 'DateTime: A date-time value (year, month, day, hour, minute, second, timezone offset in minutes)
- 'Double: A floating-point value
- 'Int: An integer
- 'String: A string
- 'Struct: An association list of (name, value) pairs

Note that base64-encoding of 'Binary values is done automatically. You do not need to do the encoding yourself.

```

class client : string ->
  object
    val url : string
      Url of the remote XmlRpc server.

    val mutable useragent : string
      User-agent to send in request headers.

    val mutable debug : bool
      If true, Xml messages will be printed to standard output.

    method url : string
      Gets url.

    method useragent : string
      Gets useragent.

    method set_useragent : string -> unit
      Sets useragent.

    method debug : bool
      Gets debug.

    method set_debug : bool -> unit
      Sets debug.

    method call : string -> XmlRpc.value list -> XmlRpc.value
      call name params invokes an XmlRpc method and returns the result, or raises
      XmlRpc.Error[1] on error.

  end

  Class for XmlRpc clients. Takes a single argument, the Url.

  Utility functions
val dump : value -> string
  Converts an XmlRpc value to a human-readable string for debugging.

  Low-level interface
type message =
  | MethodCall of (string * value list)
  | MethodResponse of value
  | Fault of (int * string)

```

Type for XmlRpc messages.

```
val message_of_xml_element : Xml.xml -> message
```

Converts an Xml Light element to an XmlRpc message.

```
val xml_element_of_message : message -> Xml.xml
```

Converts an XmlRpc message to an Xml Light element.

```
val value_of_xml_element : Xml.xml -> value
```

Converts an Xml Light element to an XmlRpc value.

```
val xml_element_of_value : value -> Xml.xml
```

Converts an XmlRpc value to an Xml Light element.