

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UBCItime.cpp	~BCITIME()	BCITIME						
Function								
BCITIME::~~BCITIME()								
Purpose								
the destructor for the BCITIME object								
Parameters								
N/A								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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ModuleName	FunctionName	ClassName						
UBCItime.cpp	BCITIME()	BCITIME						
Function								
BCITIME::BCITIME()								
Purpose								
the constructor for the BCITIME object								
Parameters								
N/A								
Returns								
N/A								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UBCItime.cpp	GetBCItime_ms()	BCITIME
Function		
unsigned short BCITIME::GetBCItime_ms()		
Purpose		
gets the current time from Windows' high-performance timers		
Parameters		
Returns		
an unsigned sixteen bit value for the current time in ms (-> wrap-around occurs every 65536ms, or about 6.5 seconds)		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UBCItime.cpp	TimeDiff	BCITIME						
Function								
unsigned short BCITIME::TimeDiff								
Purpose								
calculates the difference between two times (i.e., time2-time1) takes roll-over into account (in case time2 < time1)								
Parameters								
time1, time2 - two 16 bit integers								
Returns								
time2-time1, if time2-time1 >= 0 or time2-time1+65536, if time2-time1 < 0								
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ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	~COREMESSAGE()	COREMESSAGE						
Function								
COREMESSAGE::~~COREMESSAGE()								
Purpose								
the destructor for the COREMESSAGE object								
Parameters								
N/A								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	COREMESSAGE()	COREMESSAGE						
Function								
COREMESSAGE::COREMESSAGE()								
Purpose								
the constructor for the COREMESSAGE object								
Parameters								
N/A								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UCoreMessage.cpp	GetBufPtr()	char *COREMESSAGE
Function		
char *COREMESSAGE::GetBufPtr()		
Purpose		
Gets a pointer to the GetLength() bytes data in the coremessage		
Parameters		
N/A		
Returns		
pointer to the data		

Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UCoreMessage.cpp	GetDescriptor()	BYTE COREMESSAGE
Function		
BYTE COREMESSAGE::GetDescriptor()		
Purpose		
returns the descriptor for this coremessage		
Parameters		
N/A		
Returns		
descriptor		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	GetLength()	COREMESSAGE						
Function								
unsigned short COREMESSAGE::GetLength()								
Purpose								
Returns the length of this coremessage This length specifies ONLY the length of the actual data, i.e., it EXcludes the length of the header when it is being transmitted. The length of a coremessage cannot exceed 65kB								
Parameters								
N/A								
Returns								
length of the core message								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	GetSuppDescriptor()	BYTE COREMESSAGE						
Function								
BYTE COREMESSAGE::GetSuppDescriptor()								
Purpose								
returns the supplemental descriptor for this coremessage								
Parameters								
N/A								
Returns								
supplemental descriptor								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UCoreMessage.cpp	ParseMessage()	COREMESSAGE
Function		
int COREMESSAGE::ParseMessage() int COREMESSAGE::ParseMessage()		
Purpose		
After having received a coremessage, ParseMessage() further processes the message. Depending on the type of the coremessage, it processes the state, parameter, or status, and initializes the respective object (status, param, state) in the coremessage object		
Parameters		
N/A		
Returns		
the type of the coremessage (as defined in UCoreMessage.h or COREMSG_NONE, if the type is not recognized)		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	ReceiveBufBytes(TCustomWinSock	COREMESSAGE						
Function								
int COREMESSAGE::ReceiveBufBytes(TCustomWinSocket *Socket, char *buf, int length)								
Purpose								
this procedure reads EXACTLY length bytes from the specified (non-blocking) socket connection, i.e., it does not return before								
Parameters								
Socket - the non-blocking socket buf - the buffer that has been allocated to hold the data length - the number of bytes to read from the socket connection								
Returns								
length ... on success 0 ... on error								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	ReceiveBufBytes(TWinSocketStrea	COREMESSAGE						
Function								
int COREMESSAGE::ReceiveBufBytes(TWinSocketStream *stream, char *buf, int length)								
Purpose								
this procedure reads EXACTLY length bytes from the specified Socket stream that has been created for a (blocking) socket connection, i.e., it does not return before								
Parameters								
stream - the stream to the blocking socket buf - the buffer that has been allocated to hold the data length - the number of bytes to read from the socket connection								
Returns								
length ... on success 0 ... on error								
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ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	ReceiveCoreMessage(TCustomWin	COREMESSAGE						
Function								
int COREMESSAGE::ReceiveCoreMessage(TCustomWinSocket *Socket)								
Purpose								
given a handle to an open non-blocking Socket connection, receives the content of a coremessage and sets the values of the descriptor, the supplemental descriptor and the length accordingly use ParseMessage() to further process the coremessage								
Parameters								
Socket - the non-blocking socket								
Returns								
always ERRCORE_NOERR								
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ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	ReceiveCoreMessage(TWinSocketS	COREMESSAGE						
Function								
int COREMESSAGE::ReceiveCoreMessage(TWinSocketStream *stream)								
Purpose								
given a handle to a Socket stream that has been created for a given Socket connection, receives the content of a coremessage and sets the values of the descriptor, the supplemental descriptor and the length accordingly use ParseMessage() to further process the coremessage								
Parameters								
stream - an active stream								
Returns								
ERRCORE_NOERR success ERRCORE_RECEIVEBUFBYTES on failure								
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ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	SendBufBytes(TCustomWinSocket	COREMESSAGE						
Function								
int COREMESSAGE::SendBufBytes(TCustomWinSocket *Socket, char *buf, int length)								
Purpose								
this procedure sends EXACTLY length bytes to the specified (non-blocking) socket connection, i.e., it does not return before								
Parameters								
Socket - the non-blocking socket buf - the buffer that has been allocated to hold the data length - the number of bytes to read from the socket connection								
Returns								
<= 0 ... on error >0 ... on success								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	SendCoreMessage(TCustomWinSoc	COREMESSAGE						
Function								
int COREMESSAGE::SendCoreMessage(TCustomWinSocket *Socket)								
Purpose								
given a handle to an open non-blocking Socket connection, sends a coremessage, including the appropriate header values for the descriptor, the supplemental descriptor and the length have to be specified accordingly								
Parameters								
Socket - the non-blocking socket								
Returns								
ERRCORE_NOERR on success ERRCORE_SENDBUFBYTES, if there was an error sending bytes out ERRCORE_SOCKETNOTOPEN, if the socket connection was not open								
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ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	SendCoreMessage(TWinSocketStre	COREMESSAGE						
Function								
int COREMESSAGE::SendCoreMessage(TWinSocketStream *stream)								
Purpose								
given a handle to an open Socket stream, sends a coremessage, including the appropriate header values for the descriptor, the supplemental descriptor and the length have to be specified accordingly								
Parameters								
stream - the stream that has been created for a blocking socket connection								
Returns								
ERRCORE_NOERR on success ERRCORE_WRITE on failure								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	SetDescriptor(BYTE newdescriptor)	COREMESSAGE						
Function								
void COREMESSAGE::SetDescriptor(BYTE newdescriptor)								
Purpose								
sets the descriptor for this coremessage								
Parameters								
newdescriptor - the new descriptor								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UCoreMessage.cpp	SetLength(unsigned short newlength)	COREMESSAGE
Function		
void COREMESSAGE::SetLength(unsigned short newlength)		
Purpose		
Sets the length of this coremessage This length specifies ONLY the length of the actual data, i.e., it EXcludes the length of the header when it is being transmitted. The length of a coremessage		
Parameters		
newlength - length of the core message		
Returns		
N/A		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UCoreMessage.cpp	SetSuppDescriptor(BYTE newsupp	COREMESSAGE						
Function								
void COREMESSAGE::SetSuppDescriptor(BYTE newsuppdescriptor)								
Purpose								
sets the supplemental descriptor for this coremessage								
Parameters								
newsuppdescriptor - the new supplemental descriptor								
Returns								
N/A								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UParam.cpp	SetValue	PARAM
Function		
void PARAM::SetValue(char *src, int idx)		
Purpose		
sets the idx'th value of the parameter		
Parameters		
src - char pointer to the value idx - index of the value (0...GetNumValues()-1)		
Returns		
N/A		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	~PARAM()	PARAM						
Function								
PARAM::~~PARAM()								
Purpose								
The destructor for the PARAM object it deletes the list of values that this parameter holds								
Parameters								
N/A								
Returns								
N/A								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	~PARAMLIST()	PARAMLIST						
Function								
PARAMLIST::~~PARAMLIST()								
Purpose								
The destructor for the PARAMLIST object. It deletes both all PARAM objects in the list and also the list object itself								
Parameters								
N/A								
Returns								
N/A								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UParameter.cpp	AddParameter2List(char *paramstri	PARAMLIST
Function		
void PARAMLIST::AddParameter2List(char *paramstring, int paramlen)		
Purpose		
adds a new parameter to the list of parameters if a parameter with the same name already exists, it updates the currently stored parameter with the provided values		
Parameters		
paramstring - ASCII string, as defined in project description, defining this parameter		
Returns		
N/A		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	ClearParamList()	PARAMLIST						
Function								
void PARAMLIST::ClearParamList()								
Purpose								
clears and frees all entries in the parameter list								
Parameters								
N/A								
Returns								
N/A								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	CloneParameter2List(PARAM *par	PARAMLIST						
Function								
void PARAMLIST::CloneParameter2List(PARAM *param)								
Purpose								
<p>adds a new parameter to the list of parameters</p> <p>The difference to MoveParameter2List() is that it actually physically copies the param object (the specified param object can then be freed elsewhere)</p> <p>This function will UPDATE the values for a parameter in the list, if one with the same name already exists</p>								
Parameters								
param - pointer to an existing PARAM object								
Returns								
N/A								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	ConstructParameterLine()	PARAM						
Function								
int PARAM::ConstructParameterLine()								
Purpose								
Construct a parameter line, based upon the current values in the PARAM object								
Parameters								
N/A								
Returns								
ERRPARAM_NOERR, or ERRPARAM_INCONSISTENTNUMVAL, if the number of values in the object is inconsistent with the actually present number of values								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UParameter.cpp	DeleteParam(char *name)	PARAMLIST
Function		
void PARAMLIST::DeleteParam(char *name)		
Purpose		
deletes a parameter of a given name in the list of parameters it also frees the memory for this particular parameter it does not do anything, if the parameter does not exist		
Parameters		
name - name of the parameter		
Returns		
N/A		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	get_argument(int ptr, char *buf, cha	int PARAM						
Function								
int PARAM::get_argument(int ptr, char *buf, char *line, int maxlen)								
Purpose								
<p>parses the parameter line that is being sent in the core communication, or as stored in any BCI2000 .prm file it returns the next token that is being delimited by either a ' ' or '='</p>								
Parameters								
<p>ptr - index into the line of where to start buf - destination buffer for the token line - the whole line maxlen - maximum length of the line</p>								
Returns								
the index into the line where the returned token ends								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UParameter.cpp	GetListPtr()	TList *PARAM
Function		
TList *PARAM::GetListPtr()		
Purpose		
Returns a pointer to this parameter's list of values		
Parameters		
N/A		
Returns		
pointer to the list		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	GetName()	char *PARAM						
Function								
char *PARAM::GetName()								
Purpose								
Returns a pointer to this parameter's name Note: parameter names are case insensitive								
Parameters								
N/A								
Returns								
char pointer to the name								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	GetNumParameters()	PARAMLIST						
Function								
int PARAMLIST::GetNumParameters()								
Purpose								
Returns the number of parameters in the list								
Parameters								
N/A								
Returns								
the number of parameters								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	GetNumValues()	PARAM						
Function								
int PARAM::GetNumValues()								
Purpose								
Returns the number of values in this parameter for most types of parameters, this will be one								
Parameters								
N/A								
Returns								
number of values in this parameter								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	GetParamLine()	char *PARAM						
Function								
char *PARAM::GetParamLine()								
Purpose								
Returns a parameter line in ASCII format This parameter line is constructed, based upon the current values in the PARAM object								
Parameters								
N/A								
Returns								
a pointer to the parameter line								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	GetParamPtr(char *name)	PARAM *PARAMLIST						
Function								
PARAM *PARAMLIST::GetParamPtr(char *name)								
Purpose								
given a parameter name, returns the pointer to a PARAM object								
Parameters								
name - name of the parameter								
Returns								
pointer to a PARAM object or // NULL, if no parameter with this name exists in the list								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	GetParamPtr(int idx)	PARAM *PARAMLIST						
Function								
PARAM *PARAMLIST::GetParamPtr(int idx)								
Purpose								
given an index (0..GetListCount()-1), returns the pointer to a PARAM object								
Parameters								
idx - index of the parameter								
Returns								
pointer to a PARAM object or NULL, if the specified index is out of range								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@Wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@Wadsworth.org
Group	Responsible	EEmailAddress						
Albany	Gerv	schalk@Wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	GetSection()	char *PARAM						
Function								
char *PARAM::GetSection()								
Purpose								
Returns a pointer to this parameter's section name								
Parameters								
N/A								
Returns								
char pointer to the section name								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
Group	Responsible	EEmailAddress						
Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UParameter.cpp	GetType()	char *PARAM
Function		
char *PARAM::GetType()		
Purpose		
Returns a pointer to this parameter's type		
Parameters		
N/A		
Returns		
char pointer to the type		

Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	GetValue()	char *PARAM						
Function								
char *PARAM::GetValue()								
Purpose								
Returns a pointer to the FIRST value of this parameter (most parameters, except the *list parameter types, only have one value anyways)								
Parameters								
N/A								
Returns								
char pointer to the value								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
Group	Responsible	EEmailAddress						
Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	GetValue(int idx)	char *PARAM						
Function								
char *PARAM::GetValue(int idx)								
Purpose								
Returns a pointer to the i'th value of this parameter (most parameters, except the *list parameter types, only have one value anyways)								
Parameters								
idx ... index of the value								
Returns								
char pointer to the value if idx is out of bounds, it returns a pointer to the first value								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	MoveParameter2List(PARAM *new	PARAMLIST						
Function								
void PARAMLIST::MoveParameter2List(PARAM *newparam)								
Purpose								
adds a new parameter to the list of parameters this function assumes that the specified parameter object will not be freed anywhere else (but in the destructor of the paramlist object). The difference to CloneParameter2List() is that it does not actually copy the whole param object This function will not add a parameter to the list, if one with the same name already exists								
Parameters								
param - pointer to an existing PARAM object								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EMailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EMailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	PARAM	PARAM						
Function								
PARAM::PARAM(char *name, char *section, char *type, char *value, char *my_defaultvalue, char *my_lowrange, char *my_highrange, char *my_comment)								
Purpose								
Constructs and initializes a parameter object								
Parameters								
self-explanatory								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	PARAM()	PARAM						
Function								
PARAM::PARAM()								
Purpose								
The constructor for the PARAM object								
Parameters								
N/A								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UParameter.cpp	PARAM(char *paramstring)	PARAM
Function		
PARAM::PARAM(char *paramstring)		
Purpose		
Constructs and initializes a parameter object, based upon a parameter string, as defined in the project outline		
Parameters		
char *paramstring		
Returns		
N/A		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	PARAMLIST()	PARAMLIST						
Function								
PARAMLIST::PARAMLIST()								
Purpose								
the constructor for the PARAMLIST object								
Parameters								
N/A								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	ParseParameter(char *line, int lengt	PARAM						
Function								
int PARAM::ParseParameter(char *line, int length)								
Purpose								
<p>This routine is called by coremessage->ParseMessage() it parses the provided ASCII parameter line and initializes the PARAM object accordingly, i.e., it fills in values, name, section name, type, etc.</p>								
Parameters								
<p>line - pointer to the ASCII parameter line length - length of this parameter line</p>								
Returns								
<p>ERRPARAM_INVALIDPARAM if the parameter line is invalid, or ERRPARAM_NOERR</p>								
<table> <tr> <th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr> <tr> <td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr> </table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UParameter.cpp	SetListPtr(TList *temp_list)	void PARAM						
Function								
void PARAM::SetListPtr(TList *temp_list)								
Purpose								
Sets this parameter's list of values								
Parameters								
pointer to the list								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UParameter.cpp	SetName(char *src)	PARAM
Function		
void PARAM::SetName(char *src)		
Purpose		
sets the name of the parameter Note: parameter names are case insensitive		
Parameters		
char pointer to the name		
Returns		
N/A		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UParameter.cpp	SetSection(char *src)	PARAM
Function		
void PARAM::SetSection(char *src)		
Purpose		
sets the section name of the parameter		
Parameters		
char pointer to the section name		
Returns		
N/A		

Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UParameter.cpp	SetType(char *src)	PARAM
Function		
void PARAM::SetType(char *src)		
Purpose		
sets the type of the parameter		
Parameters		
char pointer to the type name		
Returns		
N/A		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UPParameter.cpp	SetValue(char *src)	PARAM
Function		
void PARAM::SetValue(char *src)		
Purpose		
sets the (first) value of the parameter		
Parameters		
char pointer to the value		
Returns		
N/A		

Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	~STATE()	STATE						
Function								
STATE::~~STATE()								
Purpose								
the destructor for the STATE object								
Parameters								
N/A								
Returns								
N/A								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	~STATELIST()	STATELIST						
Function								
STATELIST::~~STATELIST()								
Purpose								
The destructor for the STATELIST object. It deletes both all STATE objects in the list and also the list object itself								
Parameters								
N/A								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	AddState2List(char *statestring)	STATELIST						
Function								
void STATELIST::AddState2List(char *statestring)								
Purpose								
adds a new state to the list of states if a state with the same name already exists, it updates the currently stored state with the provided values								
Parameters								
paramstring - ASCII string, as defined in project description, defining this new state								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	AddState2List(STATE *state)	STATELIST
Function		
void STATELIST::AddState2List(STATE *state)		
Purpose		
Adds a new state to the list of states It physically copies the STATE object (the specified STATE object can then be freed elsewhere) if a state with the same name already exists, it updates the currently stored state with the provided values		
Parameters		
state - pointer to an existing STATE object		
Returns		
N/A		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	ClearStateList()	STATELIST						
Function								
void STATELIST::ClearStateList()								
Purpose								
clears and frees all entries in the state list								
Parameters								
N/A								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	ConstructStateLine()	STATE
Function		
int STATE::ConstructStateLine()		
Purpose		
Construct a state line, based upon the current values in the STATE object		
Parameters		
N/A		
Returns		
always ERRPARAM_NOERR		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	DeleteState(char *name)	STATELIST
Function		
void STATELIST::DeleteState(char *name)		
Purpose		
deletes a state of a given name in the list of states it also frees the memory for this particular state it does not do anything, if the state does not exist		
Parameters		
name - name of the state		
Returns		
N/A		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	get_argument(int ptr, char *buf, cha	STATE
Function		
int STATE::get_argument(int ptr, char *buf, char *line, int maxlen)		
Purpose		
parses the state line that is being sent in the core communication it returns the next token that is being delimited by either a ' ' or '='		
Parameters		
ptr - index into the line of where to start buf - destination buffer for the token line - the whole line maxlen - maximum length of the line		
Returns		
the index into the line where the returned token ends		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	GetBitLocation()	STATE
Function		
int STATE::GetBitLocation()		
Purpose		
Returns this state's bit location in the state vector		
Parameters		
N/A		
Returns		
this state's bit location		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	GetByteLocation()	STATE
Function		
int STATE::GetByteLocation()		
Purpose		
Returns this state's byte location in the state vector		
Parameters		
N/A		
Returns		
this state's byte location		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	GetLength()	STATE
Function		
int STATE::GetLength()		
Purpose		
Returns this state's length		
Parameters		
N/A		
Returns		
this state's length		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	GetListPtr()	TList *STATELIST
Function		
TList *STATELIST::GetListPtr()		
Purpose		
Returns a pointer to this state's list of values		
Parameters		
N/A		
Returns		
pointer to the list		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	GetName()	char *STATE						
Function								
char *STATE::GetName()								
Purpose								
Returns the name of this state								
Parameters								
N/A								
Returns								
a pointer to the state's name								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	GetNumStates()	STATELIST
Function		
int STATELIST::GetNumStates()		
Purpose		
Returns the number of states in the list		
Parameters		
N/A		
Returns		
the number of states		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	GetStateLine()	char *STATE
Function		
char *STATE::GetStateLine()		
Purpose		
Returns a state line in ASCII format This state line is constructed, based upon the current values in the STATE object		
Parameters		
N/A		
Returns		
a pointer to the state line		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	GetStateListPtr()	STATELIST *STATEVECTOR
Function		
STATELIST *STATEVECTOR::GetStateListPtr()		
Purpose		
returns a ptr to the list of states describing the state vector		
Parameters		
N/A		
Returns		
pointer to the list of states		

Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	GetStatePtr(char *name)	STATE *STATELIST						
Function								
STATE *STATELIST::GetStatePtr(char *name)								
Purpose								
given a state's name, returns the pointer to a STATE object								
Parameters								
name - name of the state								
Returns								
pointer to a STATE object or NULL, if no state with this name exists in the list								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	GetStatePtr(int idx)	STATE *STATELIST						
Function								
STATE *STATELIST::GetStatePtr(int idx)								
Purpose								
given an index (0..GetListCount()-1), returns the pointer to a STATE object								
Parameters								
idx - index of the state								
Returns								
pointer to a STATE object or NULL, if the specified index is out of range								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	GetStateValue(char *statename)	unsigned short STATEVECTOR						
Function								
unsigned short STATEVECTOR::GetStateValue(char *statename)								
Purpose								
returns a state's value from the state vector								
Parameters								
statename - the name of a state								
Returns								
the value of the state 0 on error (e.g., state not found)								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	GetStateValue(int byteloc, int bitloc,	unsigned short STATEVECTOR						
Function								
unsigned short STATEVECTOR::GetStateValue(int byteloc, int bitloc, int length)								
Purpose								
returns a state's value, based upon the state's location and size								
Parameters								
byteloc ... location of the byte of the state bitloc ... location of the bit of the state length ... length of the state								
Returns								
ERRSTATEVEC_NOSTATE on error (e.g., location outside range) the value of the state otherwise								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	GetStateVectorLength()	STATEVECTOR						
Function								
int STATEVECTOR::GetStateVectorLength()								
Purpose								
returns the length of the state vector in bytes								
Parameters								
N/A								
Returns								
the length of the state vector in bytes								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	GetStateVectorPtr()	BYTE *STATEVECTOR						
Function								
BYTE *STATEVECTOR::GetStateVectorPtr()								
Purpose								
returns a BYTE ptr to the state vector data								
Parameters								
N/A								
Returns								
a pointer to the state vector data								
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	GetValue()	unsigned short STATE
Function		
unsigned short STATE::GetValue()		
Purpose		
Returns this state's value		
Parameters		
N/A		
Returns		
this state's value		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	Initialize_StateVector()	STATEVECTOR						
Function								
void STATEVECTOR::Initialize_StateVector()								
Purpose								
assignes locations in the state vector for each state; in addition, it initializes the state vector with the values of each state in the list								
Parameters								
N/A								
Returns								
N/A								
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	ParseState(char *line, int statelength)	STATE						
Function								
int STATE::ParseState(char *line, int statelength)								
Purpose								
This routine is called by coremessage->ParseMessage() it parses the provided ASCII state line and initializes the STATE object accordingly, i.e., it fills in value, name, byte location, bit location, etc.								
Parameters								
line - pointer to the ASCII state line length - length of this state line								
Returns								
ERRSTATE_INVALIDSTATE if the state line is invalid, or ERRSTATE_NOERR								
<table><tr><th>Group</th><th>Responsible</th><th>EMailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EMailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	SetBitLocation(int loc)	STATE
Function		
void STATE::SetBitLocation(int loc)		
Purpose		
Sets this state's bit location in the state vector		
Parameters		
this state's bit location		
Returns		
N/A		
Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	SetByteLocation(int loc)	STATE
Function		
void STATE::SetByteLocation(int loc)		
Purpose		
Sets this state's byte location in the state vector		
Parameters		
this state's byte location		
Returns		
N/A		

Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	SetStateValue(char *statename, unsi	STATEVECTOR						
Function								
int STATEVECTOR::SetStateValue(char *statename, unsigned short stateval)								
Purpose								
sets a state's value in the state vector								
Parameters								
byteloc ... location of the byte of the state bitloc ... location of the bit of the state length ... length of the state value ... value of the state								
Returns								
ERRSTATEVEC_NOSTATE on error (e.g., location out of range) ERRSTATEVEC_NOERR otherwise								
<table border="1"> <thead> <tr> <th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr> </thead> <tbody> <tr> <td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr> </tbody> </table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	SetStateVector(BYTE *src, int length)	STATEVECTOR						
Function								
void STATEVECTOR::SetStateVector(BYTE *src, int length, STATELIST *src_list)								
Purpose								
sets the content of a whole state vector								
Parameters								
src - pointer to the source state vector content length - length of the state vector in bytes src_list - pointer to the list of states describing this state vector								
Returns								
N/A								
<table><tr><th>Group</th><th>Responsible</th><th>EEmailAddress</th></tr><tr><td>Albany</td><td>Gerv</td><td>schalk@wadsworth.org</td></tr></table>			Group	Responsible	EEmailAddress	Albany	Gerv	schalk@wadsworth.org
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Albany	Gerv	schalk@wadsworth.org						

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UState.cpp	SetValue	STATE
Function		
void STATE::SetValue(unsigned short new_value)		
Purpose		
Sets this state's value		
Parameters		
the new value for this state		
Returns		
N/A		
Group	Responsible	EEmailAddress

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	STATE()	STATE						
Function								
STATE::STATE()								
Purpose								
the constructor for the STATE object								
Parameters								
N/A								
Returns								
N/A								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName						
UState.cpp	STATELIST	STATELIST						
Function								
STATELIST::STATELIST()								
Purpose								
the constructor for the STATELIST object								
Parameters								
N/A								
Returns								
N/A								
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BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UStatus.cpp	GetCode()	STATUS
Function		
int STATUS::GetCode()		
Purpose		
Parameters		
Returns		

Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UStatus.cpp	GetStatus()	char *STATUS
Function		
char *STATUS::GetStatus()		
Purpose		
Parameters		
Returns		

Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org

BCI2000 - Functions Documentation

ModuleName	FunctionName	ClassName
UStatus.cpp	ParseStatus(char *line, int length)	STATUS
Function		
int STATUS::ParseStatus(char *line, int length)		
Purpose		
Parameters		
Returns		

Group	Responsible	EEmailAddress
Albany	Gerv	schalk@wadsworth.org