This section defines the data files which specify what instruments are available. The precise definition of the file syntax is provided in Backaus-Naur form below. It must

a) begin with a “type” field consisting of `type=` followed by a description of a type which the system knows. This can be a constant, shorthand for one of the default generic types (at the moment: `MIDI`) or a file name (ending in `.ck`). In the case of a file name the system will check the first line for `// type=`. It will then attempt to match the remainder of the line to a constant defined in the `Server.ck` file, at which point it should add the file to the virtual machine and instantiate an object. Note that this code will have to be added to `Server.ck` when a new instrument is added by a `.ck`.

b) follow this with a name, specified by `name=`*name*

c) a MIDI file will now look for a port, specified as `port=`*number or name* (if the name of the port is specified, it can be in quotes, but it is not required)

d) follow this with 0 or more translation lines.

A file with 0 translation lines would cause the server to instantiate the object specified, and may therefore be of some use.

0.1 Grammar

⟨*file*⟩ ::= ⟨*type*⟩ ⟨*linebreak*⟩ ⟨*name*⟩ ⟨*linebreak*⟩ (⟨*file-element*⟩ ⟨*linebreak*⟩) *

⟨*type*⟩ ::= ‘‘`type=`’’⟨*type-string*⟩ ⟨*linebreak*⟩

⟨*type-string*⟩ ::= ‘‘`MIDI`’’

⟨*name*⟩ ::= ‘‘`name=`’’⟨*name-string*⟩ ⟨*linebreak*⟩

⟨*name-string*⟩ ::= ‘`[a-zA-Z][a-zA-Z0-9_]*`’

⟨*file-element*⟩ ::= ⟨*midi-port*⟩
| ⟨*translation*⟩

⟨*midi-port*⟩ ::= ‘`port=`’ ⟨*midi-port-desc*⟩

⟨*midi-port-desc*⟩ ::= ‘`[a-zA-Z][a-zA-Z0-9]*`’
| ‘`[0-9]+`’

⟨*translation*⟩ ::= ⟨*osc-message-desc*⟩ ‘`=`’ ⟨*output-message-desc*⟩ ⟨*linebreak*⟩

⟨*osc-message-desc*⟩ ::= ‘`"`’⟨*osc-addr-pat*⟩ ⟨*osc-typetag*⟩ ‘`"`’

⟨*osc-addr-pat*⟩ ::= (‘`/`’ ⟨*osc-string*⟩)+

⟨*osc-typetag*⟩ ::= ‘`, `’ ⟨*osc-type*⟩+

⟨*osc-type*⟩	::=	‘`i`’
	|	‘`f`’
	|	‘`s`’
	|	‘`b`’
⟨*osc-string*⟩	::=	‘`[^\0]+`’
⟨*output-message-desc*⟩	::=	⟨*midi-message*⟩
	|	future message types
⟨*midi-message*⟩	::=	⟨*midi-stat-byte*⟩ ‘`,`’ ⟨*midi-data-byte*⟩ ‘`,`’ ⟨*midi-data-byte*⟩
⟨*midi-stat-byte*⟩	::=	128–255
⟨*midi-data-byte*⟩	::=	0–127
	|	⟨*osc-arg*⟩
⟨*osc-arg*⟩	::=	‘`$`’[0-9]+