// EXTENSION 2016-09-20

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* We want to add a broadcasting mechanism to the system allowing a process to
* send a broadcast messages to all of the registered listener processes. To do
* it we provide the reg() primitive which can be used to register a process
* as a listener, the listen() primitive which can be used to receive the
 * broadcast message and broadcast(natl msg) which can be used by the
 * broadcaster process to send a broadcast message.
/**
\star PRIMITIVES DECLARATIONS.
/**
* Registers the process as a listener of broadcast messages. No action will
* take place if the process is already a registered listener. We will be using
* a global broadcast descriptor and all processes will be registered as
* listener of this global broadcast descriptor.
extern "C" void reg();
^{\star} Waits for the next broadcast message. An error should be rised if the process
* is not registered as a listener of the broadcast messages. We will be using
 * a global broadcast descriptor and this primitive can be used to wait for the
 * next message sent on the global broadcast descriptor.
extern "C" natl listen();
/**
 * Broadcasts the given message to all registered processes. An error should be
 * rised if the process is not registered as a listener of the broadcast
 * messages. We will be using a global broadcast descriptor for simplicity and
 * the broadcaster register can use this primitive to send a new message on the
 \star global broadcast.
 * @param msg the message to be broadcasted.
 * /
extern "C" void broadcast (natl msq);
```