DOWNLOAD PDF GASNET, DATA DESCRIPTION

Chapter 1 : Buttons example - Custom message

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Anyone planning on using GASNet either directly or indirectly should consult this file for usage instructions. A fill-in-the-blanks conduit code skeleton Contents of this file: The interface is primarily intended as a compilation target and for use by runtime library writers as opposed to end users , and the primary goals are high performance, interface portability, and expressiveness. We use the term "conduit" to refer to any complete implementation of the GASNet API which targets a specific network device or lower-level networking layer. This distribution additionally includes a library of communication-independent portability tools called the "GASNet tools", which are used in the conduit implementations and also made available to clients see README-tools for details. The minimum system requirements are: Linux or another version of Unix. For Windows systems one needs either of two options: Most distributed-memory GASNet conduits have additional requirements, based on their interactions with network hardware and other implementation details. You can run configure from a different directory to place your build files somewhere other than inside the source tree a nice option when maintaining several build trees on the same source tree. Any compiler flags required for correct operation on your system e. This turns on C-level debugger options and also enables extensive error and sanity checking system-wide, which is highly recommended for developing and debugging GASNet clients but should NEVER be used for performance testing. These options are not normally necessary, since by default configure will probe the machine to determine if it is an SMP. Note that not all conduits and operating systems support this feature. Configure will detect various interesting features about your system and compilers, including which GASNet conduits are supported. If you think you need it, contact us at gasnet-devel lbl. A number of other useful makefile targets are available from the top-level: The following misc make variables can also be set to affect GASNet compilation: This will create an include directory with a sub-directory for each supported conduit, and a lib directory containing a library file for each supported conduit, as well as any supporting libraries. GASNet may also be used directly from the build directory, as a convenience to eliminate steps if you are making changes to GASNet or its configuration. Since they do not have compiler-specific variants, their use is limited to compiler-independent flags unless special care is taken with the selection of the make target to ensure that make only invokes one compiler as a linker. Additionally, the makefile fragments next section use these variables when compiling client code. The best way to get the correct compiler flags for your GASNet client is to "include" the appropriate makefile fragment for the conduit and configuration you want in your Makefile, and use the variables it defines in the Makefile rules for your GASNet client code. For more fine-grained control, the flags variables break-down as follows: Clients are strongly advised to compile all modules using these same compilers to ensure object compatibility. Using GASNet with pkg-config As a convenience, the same variables described in the previous section are also available via the UNIX pkg-config utility. For example, if pkg-config is installed on your system and the GASNet. In some cases the lower-level layer is a proprietary or hardware-specific network API, whereas in other cases the target API is a portable standard although in some cases this distinction is blurred. Below is the list of conduits in the current distribution, and their high-level status. Rigorously tested and supported on all current platforms. Rigorously tested over Ethernet and supported on most current platforms see below. Intended as a reference implementation for systems lacking native conduit support. Rigorously tested and supported on most current platforms see below. Believed to also work over the Intel Omni-Path psm2 Provider. The core GASNet developers have been unable to test this conduit recently. Rigorously tested and supported. Rigorously tested and supported over InfiniBand hardware on all supported systems see below. Believed to also work on other hardware offering a standard-compliant Verbs layer. Often the easiest way to develop and debug code is in a single-node environment, so this section provides conduit recommendations for development. It should also be noted that configure option --enable-debug is highly recommended for

finding bugs when developing GASNet client code. This may be more realistic for testing of the expected behaviors in multi-node systems. Additionally, since MPI will very likely use shared-memory internally, you can get multi-node like isolation at the GASNet level with the performance of shared-memory communication much better than udp. Reports of success or failure on this system are strongly encouraged. This list is not meant to be exhaustive. Several of the systems listed using a vendor-specific C compiler can also use gcc as the underlying C compiler, although we generally recommend the vendor C compiler for performance reasons. Such wrappers often have options to set these environment variables while also enabling any corresponding language- or application-specific support. See usage information below. This can be used to work-around a known bug in firehose bug that could lead to incorrect behavior after free ing out-of-segment memory areas previously used for communication. Note that on some systems bit Linux in particular the disable is only partly effective because once the sbrk -controlled heap reaches the bottom of shared libraries, glibc will use mmap used to obtain memory regardless of any options one can control. The default is conduit-dependent. This is subject to the hard limit established by configure --with-max-pthreads-per-node, and pthread limits that may be imposed by specific conduits see conduit README. A value of zero means no limit. This variable can be set to 0 to disable this optimization. Disabling this handler may allow use of other tools for debugging of signals, but is not intended for production use. On some platforms no backtrace support is available and this variable will be ignored. Backtraces are sent to stderr and to the trace file if tracing is active see below. Some fatal errors may involve memory corruption or other abnormal conditions that could cause the backtrace code to hang. When reporting bugs, one is strongly encouraged to include a backtrace if possible. The backtrace is almost always more detailed if GASNet is built with debugging enabled, but may still be useful to a GASNet developer in a non-debug build. If tracing is active see below then a copy of the backtrace will be sent to the trace file. This file may provide developers with potentially useful information about activities prior to the error. The list may contain one or more integers or ranges separated by commas, such as "0,,6". This is useful for getting a convenient backtrace for a "hung" process. The following values are available on all conduits: Mellor-Crummey and Michael L. In addition to those choices, many conduits have additional network-specific barrier algorithms documented in the corresponding conduit READMEs. This environment variable is the radix of the tree-based intra-node shared-memory barrier. The first process in each group is the parent of the others in that group. The default is 0 linear on most platforms. This variable sets the "network depth" of this implementation: The default is 32 and the minimum is 4. However, the default may fail to discover sharing in unusual cases. The default is currently 0 for all but udp-conduit, which has an unpredictable process layout. The chunk size may additionally be limited based on the size that will fit in one MaxMedium. The default value is conduit-specific. Most of the optimized collectives rely on this auxiliary space to enable optimized communication schedules. If the size is set too low, then the collectives will send a lot more control messages which could adversely affect performance. Defaults to 2MB per node. Try this setting if you experience truncated output. Some conduits use a timeout to distinguish orderly job exit from uncoordinated failure of one or more nodes. This is important to help avoid leaving "orphan" processes on the nodes. These environment variables allow the user to adjust the length of time that the conduit will wait to establish contact among all nodes before deciding that an exit is uncoordinated. Currently most conduits honor these settings. Smp-conduit honors these settings only when PSHM-support is enabled. Default values differ among these conduits. If such AM handlers have unusually large stack space requirements, a mechanism is required to ensure these internal threads will have large enough stacks. These settings allow one to control the stack sizes of these internal threads. The actual stack size may be smaller e. The default for both settings is zero, which results in using the system default size for thread stacks. Note that system performance is likely to be degraded as a result of tracing and statistical collection. Optional environment variable settings: List may contain one or more integers or ranges separated by commas, such as "0,,6". This seriously degrades tracing performance, but ensures any final trace messages before a crash are flushed into the tracefile. Anyone planning to implement a client that uses these collective should contact us gasnet-devel lbl. For more information, see the file autotuner. To use, configure GASNet with --enable-debug-malloc or --enable-debug which implies --enable-debug-malloc , and run your program as usual. This means heap behavior is likely to be somewhat

perturbed relative to the normal mode of operation, however the overhead is probably less than it would be with third-party heap corruption tools such as efence or purify at some cost in lost precision. Optional environment variable settings recognized only when debugging malloc is enabled: This can be useful for detecting use of uninitialized data.

Chapter 2 : GSPL India Gasnet Ltd. - Relationship Science

DodavatelÅ¯m staveb v investorstvÃ- GasNet, s.r.o. je urÄ•en pÅ™Ã-stup do portÃ¡lu prostÅ™ednictvÃ-m sekce PÅ™Ã-stup Dodavatele, kde mohou po registraci a pÅ™ihlÃ¡Å¡enÃ- podat Å¾Ã¡dost o vektorovÃ¡ data, a takÃ© nahlÃ¡sit etapu cizÃ- stavby. Pro dodavatele typu â€žTechnickÃ½ partner" je pak navÃ-c funkÄ•nÃ- Å¾Ã¡dost o pÅ™ipojenÃ- MODOM.

Chapter 3 : calendrierdelascience.com : Optimal Design of a Gas Transmission Network

1 Introduction Scope. This GASNet specification describes a network-independent and language-independent high-performance communication interface intended for use in implementing the runtime system for global address space languages (such as UPC or Titanium).

Chapter 4 : Gasnet, S.r.o. - ÃšstÃ- Nad Labem 01 (ÃšstÃ- Nad Labem), KlÃ-Å¡skÃ¡ /96 , IÄŒ

local- data set/get) â€¢ change the name of gasnet init based on which mode is selected to ensure correct version is linked.

Chapter 5 : gasnet â€“ USE flags â€“ Gentoo Packages

GASNET, data description by United States (Book) 1 edition published in.

Chapter 6 : berkeleylab / GASNet â€” Bitbucket

GASNet is a language-independent, networking middleware layer that provides network-independent, high-performance communication primitives including Remote Memory Access (RMA) and Active Messages (AM).

Chapter 7 : Gasnet s.r.o. Company Profile | EMIS

M a p p i n g t a b l e f o r U T I L M D 3. Mapping table for UTILMD Seg-ment Data Element Identifica- Description Attribute tion Content.

Chapter 8 : Looking For A Professional Download PDF Documents Platform - calendrierdelascience.com

Description This program generates a sales gas forecast based on the demand of contracts from multiple wells and pools in a production network. The network consists of wells, separators, lineheaters, dehydrators, meter runs, field compressors, gas processing plants and pipelines.

Chapter 9 : Gasnet Services Limited in London, SW8 1JU

Utilities are currently logging data (off-line) and monitoring data in real time from single and multiple networked sensors over cellular networks a nd collecting data using wireless bluetooth PDA systems.