Subject: Re: [PATCH 16/28] [FLAT 1/6] Changes in data structures for flat model Posted by Pavel Emelianov on Tue, 19 Jun 2007 07:52:29 GMT View Forum Message <> Reply to Message sukadev@us.ibm.com wrote: > Pavel Emelianov [xemul@openvz.org] wrote: > | sukadev@us.ibm.com wrote: > | > Pavel Emelianov [xemul@openvz.org] wrote: > | > | This patch opens the flat model patches. > | > | The flat model idea is that struct pid has two numbers. The first one > | > | (pid->nr) is a global one and is unique in the system. The second one > | > | (pid->vnr) is a virtual pid. It is used on the kernel user boundary only. > | > > | > This approach duplicates 5 integers and 2 pointers per process for every > | > process in the system. While this may not be expensive for processes that > | > actually use multiple namespaces, doesn't it waste memory if majority of > | > processes exist only in one namespace ? > | > I task struct alignment allows for it. so does the alignment of signal structure. > | and please note that this comes with appropriate ifdefs around, the only problem > | is with struct pid, but we're virtualizing it after all! > Hmm. I don't understand the last part "we are virtualizing 'struct pid'". > Even so, with the FLAT model, every process will still have two > pid_t values, two hash-chain links etc - no? I mean that since we're adding some extra functionality to the kernel this is OK to extend the data structures. Moreover we have these changes under appropriate ifdefs. > | moreover - two integers and a pointer to the namespace is the minimal set of > | fields for pid that is visible from two namespaces... > I ignored the pid_namespace pointer. But even a process that exists only > in init pid ns would have the extra fields right? It will. But this is OK. > Containers mailing list > Containers@lists.linux-foundation.org > https://lists.linux-foundation.org/mailman/listinfo/containers

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