

new/usr/src/uts/common/os/cpu.c

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XXXX initialize cpu's sys and vm stats properly

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3101 /*
3102  * Export this CPU's statistics (cpu_stat_t and cpu_stats_t) as raw and named
3103  * kstats, respectively. This is done when a CPU is initialized or placed
3104  * online via p_online(2).
3105  */
3106 static void
3107 cpu_stats_kstat_create(cpu_t *cp)
3108 {
3109     int         instance = cp->cpu_id;
3110     char        *module = "cpu";
3111     char        *class = "misc";
3112     kstat_t     *ksp;
3113     zoneid_t    zoneid;
3114
3115     ASSERT(MUTEX_HELD(&cpu_lock));
3116
3117     if (pool_pset_enabled())
3118         zoneid = GLOBAL_ZONEID;
3119     else
3120         zoneid = ALL_ZONES;
3121     /*
3122      * Create named kstats
3123      */
3124     #define CPU_STATS_KS_CREATE(name, template, update_func) \
3124     #define CPU_STATS_KS_CREATE(name, tsize, update_func) \
3125     ksp = kstat_create_zone(module, instance, (name), class, \
3126     KSTAT_TYPE_NAMED, sizeof (template) / sizeof (kstat_named_t), \
3127     0, zoneid); \
3126     KSTAT_TYPE_NAMED, (tsize) / sizeof (kstat_named_t), 0, \
3127     zoneid); \
3128     if (ksp != NULL) { \
3129         bcopy(&template, ksp->ks_data, sizeof (template)); \
3130     #endif /* ! codereview */ \
3131     ksp->ks_private = cp; \
3132     ksp->ks_update = (update_func); \
3133     kstat_install(ksp); \
3134     } else { \
3129     } else \
3135     cmn_err(CE_WARN, "cpu: unable to create %s:%d:%s kstat", \
3136     module, instance, (name)); \
3137     } \
3131     module, instance, (name));
3139     CPU_STATS_KS_CREATE("sys", cpu_sys_stats_ks_data_template, \
3133     CPU_STATS_KS_CREATE("sys", sizeof (cpu_sys_stats_ks_data_template), \
3140     cpu_sys_stats_ks_update); \
3141     CPU_STATS_KS_CREATE("vm", cpu_vm_stats_ks_data_template, \
3135     CPU_STATS_KS_CREATE("vm", sizeof (cpu_vm_stats_ks_data_template), \
3142     cpu_vm_stats_ks_update);
3144     /*
3145     * Export the familiar cpu_stat_t KSTAT_TYPE_RAW kstat.
3146     */
3147     ksp = kstat_create_zone("cpu_stat", cp->cpu_id, NULL, \
3148     "misc", KSTAT_TYPE_RAW, sizeof (cpu_stat_t), 0, zoneid);
3149     if (ksp != NULL) {
3150         ksp->ks_update = cpu_stat_ks_update;
3151         ksp->ks_private = cp;
3152         kstat_install(ksp);
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3153     }
3154 }
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