**面向小型边缘设备的缓存算法比较研究**

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**摘　要：**IoT设备的大量部署有效拓展了数据处理的边界，为了更好地满足大规模边缘用户高性能、低成本的存储需求，缓存成为了一种有效的解决方案。然而，区别于传统服务器，小型边缘设备在各方面的资源都严重受限，并且学术界对于不同缓存算法在小型边缘设备上的缓存有效性、性能特征、资源使用等缺乏深入的分析和理解。为此，本文利用不同的工作负载，对9种经典缓存算法在Odroid C4平台上进行了大量详实的实验测试，并从缓存命中率、缓存性能、CPU使用率、功耗、能耗等多方面深入剖析不同算法的缓存效率。本文的研究可以为边缘环境下缓存算法的设计与优化提供重要的数据支持，也可以为大规模边缘用户的高效存储提供有价值的帮助和指导。

**关键词：**边缘设备；嵌入式闪存；缓存算法；性能；能耗

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**A Comparative Study of Caching Algorithms for Small Edge Devices**

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**Abstract:** The widespread deployment of IoT devices has significantly expanded the boundaries of data processing. To better meet the high-performance, low-cost storage needs of large-scale edge users, caching has become an effective solution. However, unlike traditional servers, small edge devices are severely resource-constrained in various aspects. Moreover, there is a lack of in-depth analysis and understanding in academia regarding the cache effectiveness, performance characteristics, and resource usage of different caching algorithms on small edge devices. For this purpose, this paper conducts extensive and detailed experimental tests on nine classic caching algorithms using different workloads based on Odroid C4 platform. It thoroughly examines the caching efficiency of different algorithms from multiple perspectives, including cache hit rate, cache performance, CPU usage, memory usage, power consumption, energy consumption, etc. This research can provide critical data support for the design and optimization of caching algorithms in edge environments and offer valuable assistance and guidance for efficient storage among large-scale edge users.

**Key words:** Edge devices; Embedded flash devices; Caching algorithms; Performance；Energy consumption

**0 引 言**

在物联网（Internet of Things,IoT）时代，随着边缘设备在存储、算力等方面的增强，将数据的存储、查询等处理工作从云端数据中心迁移到互联网边缘已成为一种趋势[1–5]。这样做能够更好地满足边缘用户在数据的安全性、可靠性、隐私保护以及访问性能等多方面的需求[6,7]，并且无用的数据也可以直接在边端销毁，有效降低了无效的网络传输所造成的资源浪费。

得益于其低成本、低功耗以及部署灵活等优势，小型边缘设备（如Odroid、Raspberry Pi）被广泛应用于边缘计算领域，极大地拓展了数据处理的边界[8–10]。为了更好地满足边缘用户对高效数据处理的需求，底层存储设备扮演了至关重要的角色。然而，由于受到空间限制，小型边缘设备通常采用嵌入式多媒体卡（Embedded MultiMediaCard, eMMC）、微型安全数字卡（Micro Secure Digital Card, Micro SDC）等嵌入式闪存作为底层存储介质，但这两种设备在性能和成本方面都具有显著差异。尽管采用速度更快的eMMC可以有效提升数据的访问性能，但是其更高的成本开销却呈现明显劣势。根据京东报价，以64GB存储容量为例，eMMC的单位价格是Micro SDC的2~18倍。尤其是考虑到随着IoT技术的迅猛发展，小型边缘设备的数量在持续快速增加。据IDC预测，到2025年，全球范围内部署的IoT设备将会超过416亿[13]。在这一大背景下，仅仅依赖单一的存储设备根本无法满足大规模边缘用户的高性能、低成本的存储需求。

为了应对上述挑战，一个直接且行之有效的方法就是构建基于eMMC和Micro SDC的缓存系统，利用高性能eMMC设备缓存访问更频繁的热数据，以提高性能，而容量更大、成本更低的Micro SDC则用于管理大量访问更少的冷数据，以降低成本。本文选用的代表性边缘设备Odroid C4，支持可插拔的eMMC和Micro SDC插槽，为本文的研究提供了切实可行的硬件平台支撑。

然而，小型边缘设备与传统服务器有着显著区别，具体表现在各方面的资源都严重受限：1）**计算力严重不足**。小型边端设备主要面向低功耗的目标进行优化设计，多采用ARM架构，而传统服务器主要用于高性能计算，大多基于X86架构，从CPU主频、CPU核心数、CPU架构、Cache大小等方面考虑，小型边缘设备的算力明显不足；2）**存储资源有限**。从内存角度看，Odroid C4目前仅支持4GB内存，而传统服务器通常配有多个DIMM插槽，最大支持TB级的内存；从外存角度看，eMMC、Micro SDC等嵌入式闪存设备，在性能方面与固态硬盘（Solid State Drive, SSD）有较大差距。例如，eMMC的I/O带宽与NVMe SSD相差接近一个数量级；3）**电能资源有限**。小型边缘设备通常部署在电能资源有限或者不稳定的场景，如河流、湖泊、山地等野外场景，这些系统仅仅依靠有限的电池或者太阳能供电，在这种情况下，电能资源是极度稀缺的，但对于设备的正常运转是至关重要的。相比之下，传统服务器通常部署在大型数据中心，通过电源稳定的电网供电，并且还配有柴油发电机组、UPS备用电源等设施，确保在发生供电故障时服务器仍能正常工作。

上述差异意味着，建立在传统服务器上的缓存知识可能已不再适用于新兴的小型边缘设备，并且学术界对于不同缓存算法在小型边缘设备上的缓存有效性、性能特征、资源使用等缺乏深入的分析和理解，更不要说在此基础上进行缓存算法设计和资源优化了。

为了填补这一知识空白，本文拟利用广泛使用的测试基准YCSB（Yahoo! Cloud Serving Benchmark）来生成不同访问模式的Trace，结合已公开的在边缘移动设备上收集的真实Trace，对9种经典缓存算法在Odroid C4平台上进行了详实的测试研究，并从缓存命中率、缓存性能、CPU使用率、功耗、能耗等多方面深入剖析不同算法的缓存效率，从而为边缘环境下缓存算法的设计与优化提供重要的数据支持，为进一步满足大规模边缘用户高性能、低成本的存储需求提供有效的解决方案，本文的主要贡献体现在以下三个方面：

1. 本文开发了一个用于缓存算法评估的系统实验平台，主体框架采用Linux C++编写，代码总计4120行，实现了包括Random、FIFO、LRU、LFU、LIRS、ARC、CLOCK-Pro、2Q和TinyLFU在内的共9种经典缓存算法。同时，该实验平台还提供了延迟、尾延迟、带宽、缓存命中率等多项性能指标数据，便于研究人员参考使用。目前，整体代码及测试脚本都已经在Github上开源[14]。
2. 本文基于Odroid C4边缘设备，构建基于eMMC和Micro SDC的缓存系统，并利用3种真实的移动应用程序Trace，以及使用YCSB生成的90种涵盖不同访问请求分布、读写比例和访问数据块大小的Trace，在2种I/O模式、5种缓存大小和9种缓存算法上展开Trace驱动的仿真实验，共计14组，全面测试评估了不同缓存算法在不同缓存大小、不同工作负载和不同访问模式下的缓存效率。
3. 本文基于上述实验结果，从缓存命中率、缓存性能、CPU使用率、功耗、能耗等多方面深入剖析不同缓存算法的有效性和缓存效率。在8%的缓存空间条件下，eMMC和Micro SDC缓存相比于单纯的Micro SDC，在访问延迟和尾延迟方面分别降低了84.615%和90.372%，在访问带宽上提升了4.939倍，在CPU使用率上降低了46.988%，虽然在功率上增大了4.384%，但减少了能耗82.420%；而相比于单纯的eMMC，在成本上降低了86.560%。此外，本文也对eMMC和Micro SDC设备的性能和能耗进行了分析，发现eMMC和Micro SDC具有读写不平衡的特性：在性能方面，相比写请求，读请求的延迟和尾延迟较低，在eMMC上分别降低了11.87%和9.47%，带宽较高，在eMMC上提高了11.77%；在能耗方面，相比写请求，读请求的平均功率和能耗较低，在eMMC上分别降低了0.46%和10.94%。

1　背景及相关工作

1.1　缓存算法介绍

本文对九种经典缓存算法开展实验评估，有关这些算法的原理、优缺点等详细信息如表1所示。根据工作原理和实现难易程度，Random、FIFO、LFU和LRU被归类为简单算法，其中Random算法完全不考虑局部性、最近度、频率等访问特征，随机选择一个数据块进行替换；FIFO算法按照“先进先出”原则进行缓存替换；LFU会统计缓存数据块的访问频率，优先替换访问频率最低的数据块；LRU则更偏重于最近度，优先替换最久未被访问的数据块。比较而言，ARC、2Q、LIRS、CLOCK-Pro和TinyLFU的设计和实现相对复杂，下面对这五种复杂缓存算法进行详细介绍。

2Q：Theodore Johnson等[16]提出了一种新的缓存替换策略，称为2Q。2Q管理和两个队列，采用FIFO策略管理只访问了一次的数据块；则采用LRU策略管理访问两次及以上的数据块。为了解决两个队列的调优问题，使能够记住更多的历史访问信息，2Q将队列分为和两部分。为最近只访问了一次的缓存数据块；为较早访问了一次的数据块，但在内存中只保留元数据。当访问一个数据块时，根据待访问块的位置存在四种情况：① 若待访问块在中，缓存命中，则将其移动到队首；② 若待访问块在中，缓存缺失，加载访问块并移动到队尾，并从中删除对应元数据；③ 若待访问块在中，缓存命中，将其移到队首；④ 若待访问块不在任何队列中，缓存缺失，加载访问块并移动到队尾。而对于缓存淘汰数据，则按照以下三种情况处理：① 若已满，则移除中最早的数据，并将元数据放入；②若已满，则移除中最早的数据，从缓存中彻底删除；③ 若已满，则移除最不常用的数据。2Q的性能与LRU/2相当，并且具有恒定的时间开销。

表1 缓存算法介绍

Table 1 Introduction of different caching algorithms

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **缓存算法名称** | **原理** | **属性** | **优势** | **劣势** |
| **Random** | 随机选择替换块 | 随机 | 实现简单、开销低 | 性能差 |
| **FIFO** | 优先替换最先进入缓存的数据块 | 绝对最近度 | 实现简单、开销低 | 忽略了数据块的最近访问情况和使用频率 |
| **LFU** | 优先替换访问频率最低的数据块 | 绝对访问频率 | 实现较简单、可以有效保留经常访问的数据块 | 维护计数器的开销较大，可能导致“缓存污染”现象 |
| **LRU** | 优先替换最久未被访问的数据块 | 相对最近度 | 实现较简单、适用于强局部性访问模式、开销较低 | 不适用于弱局部性访问模式，如扫描、循环等 |
| **2Q** | 根据情况选择替换最近度最低的数据块或访问频率最低的数据块 | 相对最近度和相对访问频率 | 命中率高、开销低 | 实现较复杂 |
| **ARC** | 动态选择替换最近度最低的数据块或访问频率最低的数据块，自适应调整最近度和频率分量的重要性 | 相对最近度和相对访问频率 | 命中率高、开销低、抗扫描、自适应 | 实现复杂 |
| **LIRS** | 优先替换访问间最近度最大的数据块，动态转换数据块的冷热状态 | 访问间最近度 | 同时适用于强局部性和弱局部性访问模式、开销低 | 实现复杂 |
| **CLOCK-Pro** | 优先替换重用距离最大的数据块，动态转换数据块的冷热状态 | 重用距离 | 同时适用于强局部性和弱局部性访问模式、开销低 | 实现复杂 |
| **TinyLFU** | 比较被替换块和替换块的访问频率决定是否允许替换块进入缓存 | 近似绝对访问频率 | 可与任意缓存替换算法组合增强算法性能、轻量化、开销低 | 实现复杂 |

ARC：为了适应不断变化的访问模式，Nimrod Megiddo等[15]提出了一种高命中率、低开销且自适应的缓存替换策略（Adaptive Replacement Cache, ARC）。ARC维护和两个LRU队列，捕获“最近度（Recency）”，保存那些最近只被访问了一次的数据块；捕获“频率（Frequency）”，保存最近至少被访问了两次的数据块。进一步地，，。其中，和分别表示和在缓存中的部分，和作为Ghost Buffer，分别保存从和中淘汰的数据块的元数据。针对数据访问，根据待访问块的位置存在以下五种情况：① 若中的数据块被命中，将其移到队首；② 若中的数据被命中，将其移到队首；③ 若中的元数据被命中，则说明最近度更重要，需增加空间，加载对应数据块并放在队首，并删除中的元数据；④ 若中的元数据被命中，则说明频率更重要，需增加空间，加载对应数据块并放在队首，并删除中的元数据；⑤ 若访问的数据不在缓存中，则加载数据块并放在队首，同时调整和的大小以不超过最大缓存空间限制，并将和中淘汰的元数据分别保存到和中。由此，ARC能够实时检测工作负载的变化，有效判别最近度和频率的重要性，并且ARC巧妙地结合了LRU和LFU的优势，实现了高命中率、低开销和抗扫描的高缓存效率。

LIRS：为了克服LRU在弱局部性访问模式下的局限性，Song Jiang等[17]提出了一种更高效的缓存替换策略，即低访问最近度集（Low Inter-reference Recency Set, LIRS）。LIRS根据访问间最近度（Inter-reference Recency，IRR）动态维护LIR（Low IRR）和HIR（High IRR）两个数据集合，IRR指最近相邻两次访问之间的非重复数据块个数。LIR集合中的数据块IRR较小，保存热数据；HIR集合中的数据块IRR较大，保存冷数据。HIR又根据是否驻留在缓存中分为驻存HIR（Resident-HIR）和非驻存HIR（Nonresident-HIR）。具体来讲，LIRS通过一个栈S和一个队列Q来管理缓存数据块，栈S保存按访问顺序排列的所有LIR块以及部分HIR块，队列Q保存所有HIR块。根据待访问块的位置存在五种情况：① 当访问栈S中的LIR数据块时，缓存命中，将数据块移到栈顶，若该数据块位于栈底，则需进行“栈剪枝”，即移除栈底LIR块与上一个LIR块之间的所有 HIR 块；② 当访问Resident-HIR中的数据块时，缓存命中，如果这个块原本就在栈S中，将其转为LIR状态，移到栈顶，并从队列Q中删除，栈底的LIR块转为HIR状态，移到Q队列末尾，并进行栈剪枝；③ 当访问Resident-HIR中的数据块时，缓存命中，如果这个块不在栈S中，将其加入栈S顶端，并移到Q队列末尾；④ 当访问Nonresident-HIR中的数据块时，缓存缺失但该块在栈S中，将其转化为LIR块并移至栈顶，将栈S底部数据块转化为HIR块移至队列Q，然后对栈S剪枝；⑤ 当访问Nonresident-HIR中的数据块时，缓存缺失但该块不在栈S中，保留HIR状态，并移至Q队列末尾。LIRS不仅保留了LRU低开销的优点，而且有效解决了LRU在适用范围方面的限制。

CLOCK-Pro：受缓存算法LIRS的启发，Song Jiang等[18]设计了一种改进的CLOCK缓存策略，称为CLOCK-Pro。CLOCK-Pro以循环链表的形式组织所有数据块，并根据冷热状态分成热块集合和冷块集合，其中所有热块都保存在缓存中，分配空间，而冷块又根据其是否在缓存中分为驻存冷块，分配空间，以及非驻存冷块，只保留元数据，最多为个，占用空间，因此循环链表中最多存储个数据条目。CLOCK-Pro通过三个指针的移动来解决缓存缺失和数据块状态转换的问题。指向最近最热的块，用于搜索热块转化为冷块。指向最后一个驻存冷块，用于搜索替换块。指向处于检测期的最后一个冷块，用于终止冷块的检测期，被这个指针扫到的所有非驻存冷块的元数据都将从链表中删除。针对数据块访问：1）若缓存命中，则设置其引用位（Reference Bit）为1；2）若缓存缺失，需要移动寻找一个空闲块：① 若找到空闲块，但该块不在链表中，就将其设置为冷块，初始化检测期；② 若该块在链表中，则将其设置为热块，移动将一个具有较大重用距离的热块转化为冷块，实现一次冷热转换；若非驻存冷块的数量超过，则移动删除超出检测期的冷块元数据。③ 若缓存中没有空闲块，则移动直到找到合适的替换块。CLOCK-Pro采用重用距离而非最近度作为替换决策的依据，充分利用了历史访问信息，有效解决了LRU和CLOCK无法处理弱局部性访问的问题。

TinyLFU：为应对倾斜访问分布对缓存效率的影响，Gil Einziger等[19]提出了基于频率的缓存准入策略，即TinyLFU。TinyLFU并非直接决定替换哪些对象，而是通过评估最近历史访问记录，判断缓存替换是否有助于提高命中率，从而决定是否允许替换操作。具体而言，TinyLFU通过大规模的历史记录来近似统计数据块的访问频次，当缓存替换算法给出替换决策时，TinyLFU比较待替换块和新进入块，保留访问频次更高的数据块。TinyLFU建立在布隆过滤器理论基础上，具备较高的紧凑性和轻量性，有效克服了传统LFU算法在性能和资源开销上的限制，为处理复杂的访问模式提供了一种高效的解决方案。

1.2　相关工作总结

目前，学术界已针对移动边缘设备的性能和能耗，特别是在I/O子系统领域，展开了广泛的研究[18, 20, 23-25, 28-32]。

在性能方面，Mao等[24]通过收集手机上不同应用的Trace发现存在大量数据冗余，并成功利用数据重删技术有效地去除了这些冗余，极大提高了系统的I/O性能；Zhou等[25]开发了一个Block级别的I/O Trace收集器BIOtracer，并将其集成到Android内核，通过对收集的25个Traces进行研究，揭示了Android智能手机在Block级别的I/O特点，并提出了针对底层eMMC存储设备的优化建议。Qiang Zou等[18]对33个智能手机应用程序读写请求的相关性进行了分析，发现85%的应用程序的读请求和88%的应用程序的写请求在较长时间范围内存在一定的相关性。从内存层面增强移动设备的存储性能是非常重要的，Hyojun Kim等[20]提出了一个全新的多段式缓存评估框架，结合了Trace驱动仿真和实际测试的优势，评估了七种基于内存的缓存管理方案的性能表现。然而，这项工作并未涉及基于eMMC和Micro SDC的缓存构建及系统评估。

在能耗方面，Liu等[23]将数据库SQLite、LevelDB和MongoDB部署在小型边缘设备上，通过YCSB生成不同的Trace，深入研究了数据库性能和能耗的关系。Khan等[28]关注边缘计算中不同数据结构的能耗问题，通过研究发现，在能效方面，具备高并发且局部性感知的Delta树显著优于B-link树。Chandra等[29]提出了三种能效卸载方法，以延长移动设备的电池寿命。这些方法包括使用低功耗 CPU与主CPU共存、采用电池支持的RAM以减少闪存 I/O 操作，以及将计算密集型任务卸载到附近的云端。Kaup等[30]测量了包括 CPU、以太网、Wi-Fi 在内的系统资源使用率与功耗之间的关系，并在此基础上构建了一个用于提升能效的功耗模型。Bekaroo等[31]测量了包括 Raspberry Pi、智能手机等在内的五种不同边缘设备上预定义的关键功能（如设备启动、文件下载等）的功耗。Kim等[32]针对可穿戴设备的 I/O 子系统开发了一种能耗模型，显著降低了SQLite数据库I/O 操作的能耗。

与之前的研究不同，本文充分考虑小型边缘设备资源受限的特性，结合eMMC和Micro SDC存储介质的性能和成本差异，构建了基于eMMC-Micro SDC的缓存系统平台，并从系统研究的角度出发，深入探究不同缓存算法在边缘设备上的缓存有效性及缓存效率。

2　缓存系统架构设计

如图1所示，本文采用Write-Back缓存架构，根据读写请求的类型不同，所采取的处理方式也有所差异。此外，对于真实的Trace，单个访问请求通常涉及多个连续的数据块，并且访问的Offset和Size并不一定是块大小的整数倍，需要对I/O请求进一步处理（详见3.3节）。

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图1 基于eMMC和Micro SDC缓存

Figure 1 Caching based on eMMC and Micro SDC

在处理读请求时，会优先访问缓存命中的数据块；而对于缓存缺失的数据块，则从底层Micro SDC设备中读取，并检查缓存的空闲状况。如果缓存未满，则直接将其写入缓存；如果缓存已满，则根据缓存算法从缓存中淘汰一个数据块（Victim），如果Victim是脏数据，还要将Victim写回底层存储设备以保证数据的一致性，然后再将加载的数据块写入缓存。读请求的处理流程如**Algorithm 1**所示。

|  |
| --- |
| **Algorithm 1 读请求的处理流程** |
| **Require:** List of access address .  1: **for** **in** **do**  2: **if** cache hit when access  3: Get of  4: Read cache with  5: Access  6: Mark as cache hit  7:  **else if** cache miss when access  8: Read disk with  9: **if** cache is not full  10: Get free  11: Write cache with  12: **else**  13: Get of victim  14: if victim is dirty  15: Write victim back  16: Write cache with  17: Access key |
|  |

在处理写请求时，有两点不同。首先，当缓存未命中时，无需从底层存储设备读取数据块，而是直接将数据块写入缓存；其次，每当执行写请求时，就要把相应的块标记为脏数据。脏块会在其被淘汰后重新写入底层存储设备。写请求的处理流程如Algorithm 2所示。

|  |
| --- |
| **Algorithm 2 写请求的处理流程** |
| **Require:** List of access address .  1: **for** **in** **do**  2: **if** cache hit when access  3: Get of  4: Read cache with  5: Access  6: Mark as cache hit  7: Mark as dirty  8: **else if** cache miss when access  9: **if** cache is not full  10: Get free  11: Write cache with  12: **else**  13: Get of victim  14: if victim is dirty  15: Write victim back  16: Access key  17: Mark as dirty |

**3　实验方法和配置**

**3.1　硬件和系统**

本文的实验在小型边缘设备Odroid C4上进行，如图3所示。该设备搭载一颗四核Cortex-A55处理器和4GB内存，并采用一块容量为64GB的SanDisk Micro SDC作为系统盘，运行为Odroid C4定制的64位Ubuntu 20.04.6 LTS操作系统，Linux内核版本为4.9.337，文件系统是Ext4。此外，本文还引入了一块容量为64GB的Longsys FORESEE eMMC，有关这两种闪存设备的详细信息见表2。在成本方面，eMMC的单位价格是Micro SDC的18倍；在性能方面，eMMC的读写带宽分别是Micro SDC的1.4倍和4.2倍，数据是在Linux环境下以Direct I/O的方式、4KB数据块大小的条件下测得。这种性能和成本上的差异为构建基于eMMC和Micro SDC的缓存奠定了基础，同时二者在读写性能上的不平衡也为进一步探究缓存效率提供了契机。此外，本文使用炬为U96P-B功率计测试设备功耗，能耗通过平均功率和总耗时的乘积计算。

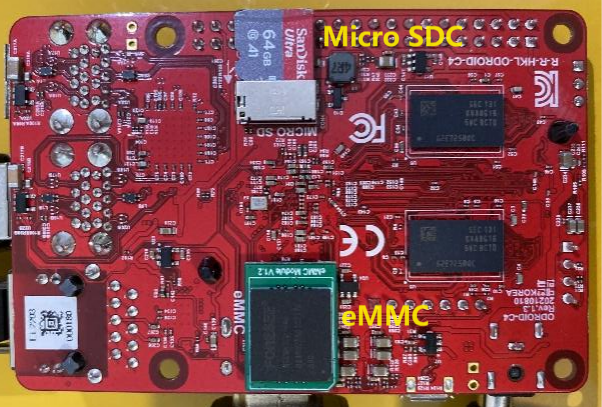


图2 小型边缘设备Odroid C4

Figure 2 Small edge device Odroid C4

表2 闪存介绍

Table 2 Introduction of flash memory

|  |  |  |
| --- | --- | --- |
| **Flash Memory** | **eMMC** | **Micro SDC** |
| Capacity(GB) | 64 | 64 |
| Size(mm) | 11.5\*13\*0.8 | 14.99\*10.92\*1.02 |
| Brand | Longsys FORESEE | SanDisk |
| Price(￥) | 655.58 | 35.9 |
| Read Bandwidth(MB/s) | 17.42 | 12.31 |
| Write Bandwidth(MB/s) | 11.51 | 2.77 |

3.2　实验所采用的Trace

（1）真实的Trace

本文选取了从智能手机上收集的真实Trace用于实验测试，分别为MobileAppTraces[21]、Nexus 5 Smartphone Traces[22]和Smartphone Traces[23,24]，详细信息参考表3。

**MobileAppTraces：**Mao等[21]在装有Android 5.0.1和Linux Kernel 3.4的Google Nexus 5.4智能手机上收集了多种移动应用程序Trace，本文选用了收集自百度贴吧的Trace：baidutieba-4h；

**Nexus 5 Smartphone Traces**：Zhou等[22]在Linux内核中实现了一个名为BIOtracer的Trace收集工具，并使用BIOtracer收集了Nexus 5智能手机上18个常见应用程序的块级I/O Trace，本文选用了收集自信息应用的Trace：log106\_Messaging；

**Smartphone Traces**：Yang等[23]收集了六部智能手机中文件系统的I/O Trace[24]，这些手机来自四个国家的六名年龄在20至40岁之间的用户，Trace记录了从缓存刷写到闪存时的写入操作，本文选用了其中一组Trace：mobi.trace.0。

（2）YCSB生成的Trace

为了更全面测试不同Trace对缓存效率的影响，本文还利用测试基准YCSB生成多样化的Trace，包括不同访问模式、不同读写比例等。通常情况下，YCSB的性能测试需要连接底层数据库，并在数据加载完成后运行生成的工作负载，但这些访问Trace并未被记录，无法直接用于本文的实验。为解决这一问题，本文利用开源工具YCSB-KVTracer，通过配置特定的工作负载，将一系列访问请求转换为键值操作，并将这些操作记录在本地文件中，避免了复杂的数据库连接和配置，但记录的键值操作需要做如下转换，便可作为Trace成为仿真实验的输入：GET/UPDATE分别转换为Read/Write操作；将每个Key按照出现频次降序排序，从小到大依次分配数据块地址Offset；请求的Size则统一设置为相应的Block Size。

表3 真实Trace的参数信息

Table 3 Parameter Information for Real Trace

|  |  |  |  |
| --- | --- | --- | --- |
| **Trace Name** | **baidutieba-4h** | **log106\_Messaging** | **mobi.trace.0** |
| Trace Type | Nexus 5 Smartphone Traces | Smartphone Traces | MobileAppTraces |
| Total Request Number | 61666 | 5702 | 81873 |
| Read Request Number | 7008 | 154 | 37021 |
| Write Request Number | 54658 | 5548 | 44852 |
| Read Request Ratio | 0.11 | 0.03 | 0.45 |
| Max Request Size(B) | 126976 | 131072 | 264300 |
| Min Request Size(B) | 4096 | 4096 | 1 |
| Max Read Request Size(B) | 126976 | 131072 | 264300 |
| Min Read Request Size(B) | 4096 | 4096 | 1 |
| Max Write Request Size(B) | 4096 | 123392 | 4096 |
| Min Write Request Size(B) | 4096 | 4096 | 4096 |

3.3　I/O请求解析

Trace中包含大量的I/O请求，表示I/O请求的数据块在底层存储设备中的逻辑地址偏移；表示I/O请求的大小，单位为字节（B）；表示I/O请求的类型（读/写），单条请求格式如下式（1）所示：

|  |  |
| --- | --- |
|  | (1) |

真实Trace中和都不一定是数据块大小的整数倍，因此通过计算将I/O访问扩展到包含待访问空间的整数个块，最后化归为对单个数据块（Block）的访问，计算公式如下式（2）、式（3）和式（4）所示。

|  |  |
| --- | --- |
| 𝐵𝑒𝑔𝑖𝑛=(𝑂𝑓𝑓𝑠𝑒𝑡|𝐵𝑙𝑜𝑐𝑘 𝑆𝑖𝑧𝑒) | (2) |

其中，表示数据块的大小，单位为B；表示待访问空间的第一个数据块的编号（从0开始），是整除的结果。

|  |  |
| --- | --- |
|  | (3) |

其中，表示待访问空间的最后一个数据块的编号（从0开始），是整除的结果。

|  |  |
| --- | --- |
|  | (4) |

其中，表示所有待访问的数据块的数组，包含待放问数据块的逻辑地址，访问地址转换如下图3所示。

图示

描述已自动生成

图3 访问地址转换示意图

Figure 3 Illustration of access address translation

当，，时，实际访问Block 0、Block 1、Block 2，计算过程如下式（5）所示：

|  |  |
| --- | --- |
|  | (5) |

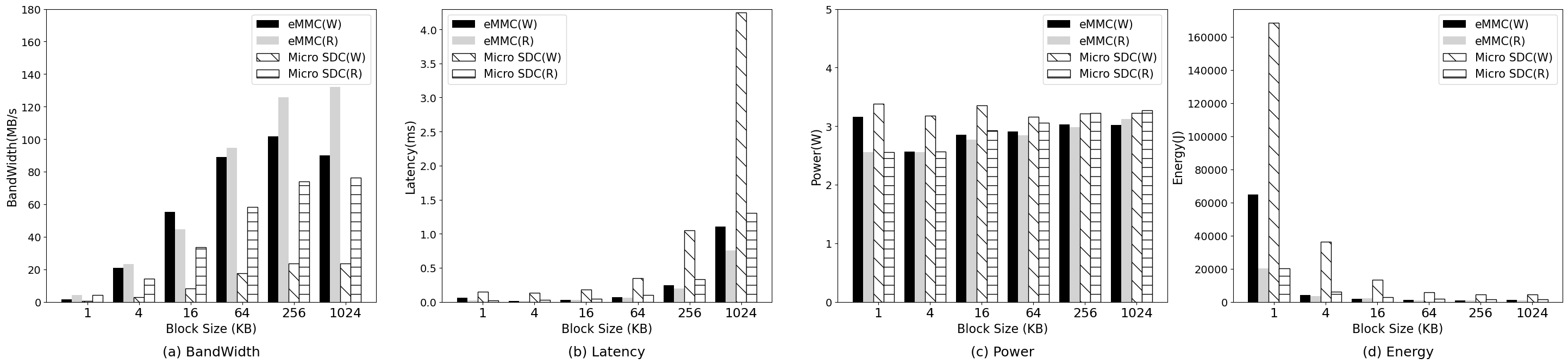


图4 eMMC和Micro SDC在不同块大小条件的读写性能、功耗和能耗对比

Figure 4 Comparison of read/write performance, power and energy consumption of eMMC and Micro SDC under different block sizes

**4 实验结果与分析**

**4.1　存储设备特性分析**

eMMC和Micro SDC在性能上的差异为构建缓存系统提供了重要的依据，为了更深入地理解这两种存储设备的特性，本文采用YCSB生成的Uniform Trace，以Direct I/O的方式，在不同块大小条件下，对其读写性能及能耗表现进行了详细的测试研究，实验结果如图4所示。通过对测试数据的分析，将两种设备的特性总结如下：

1. **eMMC性能更优**。针对不同的数据块大小，eMMC的读写性能均显著优于Micro SDC，尤其是在写性能方面，二者差距更为明显。以4KB块大小为例，在读性能方面，相比于Micro SDC，eMMC的访问带宽提升了64.46%，延迟降低了43.76%；在写性能方面，相比于Micro SDC，eMMC的访问带宽提升了6.24倍，延迟降低了88.12%。 随着数据块的增大，eMMC和Micro SDC读写性均有所提升，基本在数据块为256KB时达到峰值，eMMC的读写带宽分别是125.77MB/s和101.66MB/s，相比于Micro SDC，分别提升了70.18%和3.31倍。
2. **读写不平衡**。eMMC与Micro SDC都存在严重的读写不平衡特性，体现在性能和功耗两方面。在性能方面，两种设备的读性能均优于写性能，但这种不平衡在Micro SDC上更为突出，并且随着访问块的增大，读写性能之间的差距在逐步缩小。例如，在1KB块大小的条件下，eMMC的读带宽是其写带宽的1.61倍，而Micro SDC的读带宽是其写带宽的5.3倍；相较之下，当块大小增加到1MB的时候，eMMC读写性能差距降低到46.67%，而Micro SDC的读写性能差距也有所减小，但仍能保持在2.24倍，明显高于eMMC。在功耗方面，针对较小的访问块大小，两种设备的写功耗都要高于读功耗，而随着访问块大小的增加，读写功耗逐渐趋于平衡。例如，在1KB块大小的条件下，eMMC的写功耗比读功耗高23.61%，而Micro SDC的写功耗比读功耗高32.37%；而当访问数据块大小超过64KB，读写功耗基本持平。

**性能对能耗的影响更为显著**。尽管设备的能耗由功耗和时间两个因素共同决定，但通过实验发现，时间对能耗的影响更为显著。当访问的数据块较小时，I/O带宽较低，完成相同任务所需的时间则更长，从而极大地增加了系统的能耗。例如，与访问块大小为1KB的实验相比，当访问块大小为1MB时，eMMC的读写带宽分别提升了30.7倍和55.32倍，相应的总时间分别缩短了96.85%和98.23%，尽管读功耗增加了22.18%，写功耗变化不大，降低了4.53%，但显著缩短的时间极大地降低了设备的总能耗，读写能耗分别降低了96.15%和98.3%。此外，针对相同的块大小，较低的写性能会极大地增加设备的写能耗。当访问块大小为1KB时，eMMC的读带宽是其写带宽的1.61倍，这导致总体时间缩短了61.62%，再加上写功耗比读功耗高23.61%，这进一步导致系统的写能耗比读能耗高2.22倍。类似的结果也体现在Micro SDC上。

4.2　缓存算法测试研究

本节将通过Trace驱动的仿真实验，深入研究九种缓存算法的性能和能耗表现，包括命中率、延迟、P99尾延迟和带宽等关键指标，以及CPU使用率、功耗和能耗等资源使用指标，力求综合评估各缓存算法的有效性和缓存效率。

4.2.1 基于YCSB生成Trace的测试研究

首先，本文基于YCSB生成的仿真Trace进行实验，聚焦探讨访问分布、访问块大小、读写比例和缓存大小等不同因素对缓存算法的影响。实验的默认参数配置为：访问地址空间为125MB，访问分布为Latest，读操作比例为0.6，数据块大小为64KB，缓存大小为0.1，Direct I/O访问模式。

表3 缓存算法在不同分布访问模式下的性能表现

Table 3 Performance of caching algorithms under different distribution access patterns

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Distribution Access Pattern** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Hit Ratio** | uniform | 0.096 | 0.096 | 0.094 | 0.052 | 0.101 | 0.1 | 0.098 | 0.1 | 0.103 |
| zipfian | 0.521 | 0.518 | 0.556 | 0.516 | 0.551 | 0.568 | 0.572 | 0.562 | 0.572 |
| latest | 0.72 | 0.711 | 0.745 | 0.704 | 0.745 | 0.756 | 0.758 | 0.751 | 0.758 |
| **P99 Latency(ms)** | uniform | 8.783 | 8.131 | 17.241 | 8.595 | 7.999 | 8.172 | 8.533 | 9.448 | 7.929 |
| zipfian | 7.541 | 7.416 | 7.464 | 7.339 | 7.649 | 7.304 | 7.379 | 7.533 | 7.383 |
| latest | 7.333 | 7.417 | 7.062 | 7.201 | 7.201 | 7.33 | 7.297 | 6.83 | 6.899 |
| **Average Latency(ms)** | uniform | 0.311 | 0.305 | 0.319 | 0.319 | 0.292 | 0.297 | 0.303 | 0.3 | 0.296 |
| zipfian | 0.194 | 0.191 | 0.179 | 0.186 | 0.173 | 0.167 | 0.168 | 0.174 | 0.17 |
| latest | 0.142 | 0.143 | 0.125 | 0.142 | 0.122 | 0.127 | 0.12 | 0.116 | 0.116 |
| **Bandwidth(MB/s)** | uniform | 19.741 | 20.177 | 19.28 | 19.287 | 21.016 | 20.717 | 20.315 | 20.507 | 20.749 |
| zipfian | 31.404 | 32.015 | 34.093 | 32.839 | 35.238 | 36.373 | 36.226 | 35.044 | 35.729 |
| latest | 42.821 | 42.585 | 48.352 | 42.773 | 49.463 | 47.647 | 50.481 | 51.909 | 51.96 |

表4 缓存算法在不同分布访问模式下的资源使用和能耗表现

Table 4 Resource usage and energy performance of caching algorithms underdifferent distribution access patterns

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Distribution Access Pattern** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Average CPU Usage(%)** | uniform | 24.55 | 23.867 | 23.66 | 23.78 | 24.88 | 23.58 | 23.567 | 24.02 | 23.833 |
| zipfian | 23.025 | 24.833 | 23.333 | 23.225 | 23.225 | 22.767 | 23.8 | 21.175 | 25.7 |
| latest | 16.667 | 14 | 22.3 | 14.867 | 15.533 | 18.55 | 15.6 | 13 | 18.65 |
| **Average Power(W)** | uniform | 3.263 | 3.036 | 3.425 | 3.175 | 3.384 | 3.55 | 3.422 | 3.291 | 3.311 |
| zipfian | 2.867 | 2.905 | 3.244 | 2.969 | 2.957 | 3.093 | 3.039 | 3.236 | 2.922 |
| latest | 3.182 | 3.011 | 3.108 | 3.186 | 3.076 | 3.047 | 3.287 | 3.085 | 3.066 |
| **Energy(J)** | uniform | 5416.24 | 4930.547 | 5821.079 | 5394.224 | 5276.309 | 5615.021 | 5519.67 | 5258.667 | 5228.919 |
| zipfian | 2991.525 | 2973.326 | 3117.924 | 2962.581 | 2749.73 | 2786.447 | 2748.908 | 3025.832 | 2679.843 |
| latest | 2434.968 | 2316.883 | 2106.282 | 2440.765 | 2037.773 | 2095.496 | 2133.643 | 1947.433 | 1933.539 |

表5 缓存算法在不同访问块大小下的性能表现

Table 5 Performance of caching algorithms under different access block size

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Block Size** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Hit Ratio** | 1 | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 | 0.643 |
| 4 | 0.676 | 0.676 | 0.676 | 0.676 | 0.676 | 0.676 | 0.676 | 0.676 | 0.676 |
| 16 | 0.705 | 0.705 | 0.705 | 0.705 | 0.652 | 0.705 | 0.705 | 0.705 | 0.705 |
| 64 | 0.72 | 0.711 | 0.745 | 0.745 | 0.704 | 0.756 | 0.758 | 0.751 | 0.758 |
| 256 | 0.626 | 0.619 | 0.686 | 0.677 | 0.685 | 0.721 | 0.725 | 0.72 | 0.735 |
| **P99 Latency(ms)** | 1 | 1.944 | 1.936 | 1.973 | 1.862 | 1.72 | 1.832 | 1.83 | 1.831 | 1.716 |
| 4 | 2.402 | 2.496 | 2.323 | 1.998 | 2.059 | 1.491 | 1.756 | 1.686 | 2.318 |
| 16 | 1.054 | 0.956 | 0.931 | 0.963 | 5.702 | 1.035 | 0.968 | 1.038 | 1 |
| 64 | 7.333 | 7.417 | 7.201 | 7.062 | 7.201 | 7.33 | 7.297 | 6.83 | 6.899 |
| 256 | 25.072 | 24.357 | 24.621 | 30.911 | 24.729 | 24.194 | 24.774 | 25.268 | 24.068 |
| **Average Latency(ms)** | 1 | 0.067 | 0.067 | 0.066 | 0.064 | 0.06 | 0.063 | 0.064 | 0.063 | 0.061 |
| 4 | 0.062 | 0.065 | 0.061 | 0.054 | 0.052 | 0.049 | 0.051 | 0.048 | 0.062 |
| 16 | 0.047 | 0.046 | 0.046 | 0.045 | 0.077 | 0.049 | 0.047 | 0.048 | 0.046 |
| 64 | 0.142 | 0.143 | 0.122 | 0.125 | 0.142 | 0.127 | 0.12 | 0.116 | 0.116 |
| 256 | 0.546 | 0.57 | 0.452 | 0.521 | 0.47 | 0.444 | 0.433 | 0.453 | 0.417 |
| **Bandwidth(MB/s)** | 1 | 1.376 | 1.386 | 1.394 | 1.434 | 1.522 | 1.452 | 1.446 | 1.465 | 1.515 |
| 4 | 5.891 | 5.662 | 6.043 | 6.805 | 6.977 | 7.449 | 7.171 | 7.584 | 5.949 |
| 16 | 30.677 | 31.345 | 31.438 | 31.973 | 19.195 | 29.332 | 30.981 | 30.206 | 31.613 |
| 64 | 42.821 | 42.585 | 49.463 | 48.352 | 42.773 | 47.647 | 50.481 | 51.909 | 51.96 |
| 256 | 45.255 | 43.361 | 54.575 | 47.393 | 52.47 | 55.55 | 56.959 | 54.523 | 59.144 |

表6 缓存算法在不同访问块大小下的资源使用和能耗表现

Table 6 Resource usage and energy performance of caching algorithms under different access block size

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Block Size** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Average CPU Usage(%)** | 1 | 12.167 | 15.65 | 11.833 | 17.3 | 19.85 | 12.267 | 23.35 | 15.6 | 14.4 |
| 4 | 19.8 | 22.45 | 18.3 | 23.3 | 23.3 | 7.2 | 17.15 | 19 | 20.2 |
| 16 | 29.4 | 24.7 | 27.1 | 27.8 | 19.6 | 24.5 | 26.9 | 19.9 | 20.3 |
| 64 | 16.667 | 14 | 15.533 | 22.3 | 14.867 | 18.55 | 15.6 | 13 | 18.65 |
| 256 | 14.3 | 14.133 | 15.062 | 14.625 | 14.137 | 14.788 | 14.175 | 14.012 | 14.457 |
| **Average Power(W)** | 1 | 2.856 | 2.75 | 3.149 | 3.379 | 2.808 | 3.133 | 2.974 | 3.074 | 2.798 |
| 4 | 3.021 | 3.443 | 2.916 | 3.075 | 3.05 | 2.924 | 2.755 | 3.154 | 3.126 |
| 16 | 2.747 | 2.949 | 3.002 | 2.905 | 2.77 | 2.899 | 3.326 | 3.149 | 2.905 |
| 64 | 3.182 | 3.011 | 3.076 | 3.108 | 3.186 | 3.047 | 3.287 | 3.085 | 3.066 |
| 256 | 3.191 | 3.22 | 3.352 | 3.32 | 3.262 | 3.223 | 3.124 | 3.156 | 3.149 |
| **Energy(J)** | 1 | 68012.651 | 65015.873 | 74021.831 | 77212.742 | 60455.022 | 70703.956 | 67394.213 | 68756.882 | 60518.062 |
| 4 | 16803.96 | 19925.861 | 15811.929 | 14806.995 | 14324.552 | 12862.617 | 12589.017 | 13627.409 | 17218.485 |
| 16 | 2934.241 | 3082.879 | 3129.001 | 2977.232 | 4728.698 | 3238.594 | 3517.845 | 3416.091 | 3011.136 |
| 64 | 2434.968 | 2316.883 | 2037.773 | 2106.282 | 2440.765 | 2095.496 | 2133.643 | 1947.433 | 1933.539 |
| 256 | 2310.522 | 2433.361 | 2012.613 | 2295.482 | 2037.149 | 1901.193 | 1797.209 | 1896.737 | 1744.664 |

表7 缓存算法在Latest分布访问模式下的性能表现

Table 7 Performance of caching algorithms under Latest distribution access patterns

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Cache Size** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Hit Ratio** | 0.02 | 0.495 | 0.501 | 0.587 | 0.562 | 0.606 | 0.643 | 0.649 | 0.642 | 0.658 |
| 0.04 | 0.606 | 0.601 | 0.654 | 0.653 | 0.668 | 0.701 | 0.707 | 0.699 | 0.709 |
| 0.06 | 0.66 | 0.649 | 0.696 | 0.701 | 0.69 | 0.731 | 0.734 | 0.716 | 0.733 |
| 0.08 | 0.696 | 0.69 | 0.728 | 0.729 | 0.7 | 0.746 | 0.75 | 0.734 | 0.75 |
| 0.1 | 0.72 | 0.711 | 0.745 | 0.745 | 0.704 | 0.756 | 0.758 | 0.751 | 0.758 |
| **P99 Latency(ms)** | 0.02 | 7.696 | 7.706 | 7.439 | 7.536 | 7.319 | 7.349 | 7.351 | 7.364 | 7.529 |
| 0.04 | 7.567 | 7.422 | 7.454 | 7.55 | 7.213 | 7.63 | 7.092 | 7.217 | 7.635 |
| 0.06 | 7.477 | 7.598 | 7.04 | 7.454 | 7.067 | 7.374 | 7.361 | 7.397 | 7.341 |
| 0.08 | 7.389 | 7.238 | 7.35 | 7.17 | 7.328 | 7.103 | 7.124 | 7.352 | 7.1 |
| 0.1 | 7.333 | 7.417 | 7.201 | 7.062 | 7.201 | 7.33 | 7.297 | 6.83 | 6.899 |
| **Average Latency(ms)** | 0.02 | 0.223 | 0.219 | 0.175 | 0.193 | 0.178 | 0.166 | 0.164 | 0.167 | 0.162 |
| 0.04 | 0.187 | 0.192 | 0.158 | 0.17 | 0.156 | 0.153 | 0.143 | 0.147 | 0.145 |
| 0.06 | 0.167 | 0.175 | 0.14 | 0.151 | 0.144 | 0.137 | 0.134 | 0.141 | 0.133 |
| 0.08 | 0.154 | 0.158 | 0.13 | 0.134 | 0.142 | 0.127 | 0.126 | 0.134 | 0.123 |
| 0.1 | 0.142 | 0.143 | 0.122 | 0.125 | 0.142 | 0.127 | 0.12 | 0.116 | 0.116 |
| **Bandwidth(MB/s)** | 0.02 | 27.476 | 27.922 | 34.767 | 31.599 | 34.308 | 36.616 | 37.027 | 36.432 | 37.637 |
| 0.04 | 32.636 | 31.823 | 38.4 | 35.812 | 38.908 | 39.819 | 42.443 | 41.401 | 41.773 |
| 0.06 | 36.495 | 34.875 | 43.355 | 40.309 | 42.048 | 44.249 | 45.344 | 43.025 | 45.59 |
| 0.08 | 39.58 | 38.562 | 46.51 | 45.279 | 42.68 | 47.686 | 47.945 | 45.213 | 48.959 |
| 0.1 | 42.821 | 42.585 | 49.463 | 48.352 | 42.773 | 47.647 | 50.481 | 51.909 | 51.96 |

表8 缓存算法在Latest分布访问模式下的资源使用和能耗表现

Table 8 Resource usage and energy performance of caching algorithms underLatest distribution access patterns

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Cache Size** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Average CPU Usage(%)** | 0.02 | 16.1 | 17.3 | 19.233 | 15.525 | 15.767 | 17.4 | 18.367 | 17.167 | 17.433 |
| 0.04 | 14.925 | 15.025 | 15.3 | 17.567 | 19.033 | 15.2 | 18.1 | 14.8 | 18.667 |
| 0.06 | 19.133 | 13.9 | 15.633 | 19.167 | 16 | 13.067 | 16.067 | 14.033 | 18.033 |
| 0.08 | 12.833 | 19.4 | 16.033 | 14 | 19.8 | 20.333 | 15.3 | 13.633 | 16.45 |
| 0.1 | 16.667 | 14 | 15.533 | 22.3 | 14.867 | 18.55 | 15.6 | 13 | 18.65 |
| **Average Power(W)** | 0.02 | 3.437 | 3.006 | 3.161 | 3.297 | 3.222 | 3.237 | 3.168 | 2.94 | 3.089 |
| 0.04 | 3.32 | 3.068 | 3.07 | 3.423 | 3.234 | 3.156 | 3.136 | 3.185 | 3.396 |
| 0.06 | 3.112 | 3.19 | 3.273 | 3.048 | 3.148 | 3.137 | 3.049 | 3.046 | 2.965 |
| 0.08 | 3.645 | 3.075 | 3.084 | 3.233 | 3.122 | 3.113 | 3.279 | 3.061 | 3.382 |
| 0.1 | 3.182 | 3.011 | 3.076 | 3.108 | 3.186 | 3.047 | 3.287 | 3.085 | 3.066 |
| **Energy(J)** | 0.02 | 4098.982 | 3527.706 | 2979.252 | 3418.972 | 3077.373 | 2896.821 | 2803.603 | 2644.321 | 2689.384 |
| 0.04 | 3333.428 | 3159.106 | 2619.733 | 3132.047 | 2723.648 | 2597.147 | 2421.14 | 2520.859 | 2663.925 |
| 0.06 | 2794.191 | 2997.274 | 2473.755 | 2477.781 | 2453.236 | 2323.063 | 2203.371 | 2319.845 | 2131.106 |
| 0.08 | 3017.67 | 2612.977 | 2172.791 | 2339.693 | 2396.947 | 2139.135 | 2241.032 | 2218.452 | 2263.555 |
| 0.1 | 2434.968 | 2316.883 | 2037.773 | 2106.282 | 2440.765 | 2095.496 | 2133.643 | 1947.433 | 1933.539 |

1. 不同访问分布对于缓存算法的影响

访问局部性（Locality）直接关系到缓存算法的效率。三种访问分布Uniform、Zipfian和Latest的访问局部性依次增强，从实验结果中也可以明显观察到，不同的缓存算法的命中率和性能也在逐步提升，但复杂算法的缓存效率提升更加显著。例如，如表3和表4所示，与Uniform分布相比，FIFO在Latest分布下的命中率和带宽分别提升了6.406倍和1.111倍，而延迟和尾延迟分别降低了53.115%和8.781%，；TinyLFU在Latest分布下的命中率和带宽分别提升了6.359倍和1.504倍，而延迟和尾延迟分别降低了60.811%和12.990%，明显高于FIFO的性能提升。

此外，实验结果还显示，在Locality较差的Uniform分布下，各种缓存算法的命中率和性能差异不大，甚至Random算法的命中率还要高于FIFO、LRU、2Q等算法，在这种情况下，选择实现简单且开销低的缓存算法即可满足需求，无需采用代价更高的复杂算法。其主要原因在于Locality较差的Trace本身缺乏访问热点，即使是高级缓存算法也无法有效捕捉热数据，这进一步证明了访问局部性对缓存算法的决定性作用。

在CPU资源使用方面，随着性能的提升，CPU使用率逐步降低，特别是在Latest分布下，CPU使用率降至最低。例如，与Uniform和Zipfian分布相比，TinyLFU在Latest分布下的CPU使用率分别降低了21.747%和27.432%，其他缓存算法也有类似表现。在功耗方面，针对不同的访问分布，各种缓存算法的功耗基本相近，维持在3W左右，因此，最终决定能耗的主要因素在于性能。实验结果清晰显示，各类算法在Uniform分布下的能耗最高，而在局部性最强的Latest分布下能耗最低。例如，与Uniform分布相比，TinyLFU在Latest分布下的能耗下降了63.022%。

1. 不同访问块大小对于缓存算法的影响

访问块大小直接关系到缓存算法的效率。从实验结果观察可得，在访问块大小从1KB、4KB到16KB时，不同缓存算法的命中率和性能在逐步提升。例如，如表5和表6所示，

1. 不同读写比例对于缓存算法的影响
2. 不同缓存大小对于缓存算法的影响

缓存大小直接关系到缓存算法的效率。从实验结果中可以观察到，随着缓存大小的增加，不同缓存算法的命中率和性能也在逐步提升，简单算法Random、FIFO和复杂算法2Q的缓存效率提升更加显著。如表7和表8所示，与缓存大小为0.02时相比，Random在缓存大小为0.1时的命中率和带宽分别提升了45.455%和55.849%，而延迟和尾延迟分别降低了36.323%和4.717%；ARC在缓存大小为0.1时的命中率和带宽分别提升了17.574%和17.574%，而延迟和尾延迟分别降低了23.494%和23.494%，明显低于Random的性能提升。

在CPU资源使用方面，随着性能的提升，简单算法Random和复杂算法2Q、ARC和TinyLFU的CPU使用率整体提升，简单算法FIFO、LFU、LRU和复杂算法LIRS、CLOCK-Pro的CPU使用率整体降低。在功耗方面，针对不同的缓存大小，各种缓存算法的功耗基本相近，维持在3.168 W左右。因此，最终决定能耗的主要因素在于性能。实验结果清晰显示，各类算法的能耗随着缓存的增大而降低。例如，与缓存大小为0.02时相比，Random在缓存大小为0.1时的能耗下降了40.596%。

4.2.2 基于真实Trace的测试研究

其次，本文基于真实Trace进行实验，聚焦探讨工作负载和缓存大小等不同因素对缓存算法的影响。实验的默认参数配置为：工作负载为baidutieba-4h，数据块大小为64KB，缓存大小为0.1，Direct I/O访问模式。

表9 缓存算法在不同工作负载下的性能表现

Table 9 Performance of caching algorithms under different workload

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Distribution Access Pattern** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Hit Ratio** | baidutieba-4h | 0.941 | 0.957 | 0.588 | 0.966 | 0.953 | 0.965 | 0.956 | 0.962 | 0.935 |
| log106\_Messaging | 0.838 | 0.893 | 0.616 | 0.929 | 0.887 | 0.928 | 0.919 | 0.921 | 0.912 |
| mobi.trace.0 | 0.66 | 0.663 | 0.602 | 0.662 | 0.646 | 0.682 | 0.595 | 0.617 | 0.602 |
| **P99 Latency(ms)** | baidutieba-4h | 7.718 | 7.298 | 14.97 | 6.453 | 7.465 | 6.642 | 7.555 | 7.109 | 8.092 |
| log106\_Messaging | 12.718 | 13.212 | 21.115 | 12.818 | 14.198 | 13.507 | 12.608 | 12.741 | 13.802 |
| mobi.trace.0 | 5.201 | 4.777 | 5.501 | 4.709 | 4.944 | 4.668 | 5.177 | 4.927 | 5.27 |
| **Average Latency(ms)** | baidutieba-4h | 0.086 | 0.082 | 0.173 | 0.08 | 0.085 | 0.082 | 0.086 | 0.081 | 0.089 |
| log106\_Messaging | 0.141 | 0.129 | 0.326 | 0.116 | 0.131 | 0.118 | 0.119 | 0.117 | 0.122 |
| mobi.trace.0 | 0.115 | 0.098 | 0.145 | 0.096 | 0.112 | 0.101 | 0.135 | 0.111 | 0.134 |
| **Bandwidth(MB/s)** | baidutieba-4h | 10.947 | 11.471 | 5.569 | 11.733 | 11.142 | 11.525 | 10.971 | 11.588 | 10.623 |
| log106\_Messaging | 10.181 | 11.139 | 4.476 | 12.34 | 10.942 | 12.192 | 12.004 | 12.248 | 11.716 |
| mobi.trace.0 | 3.84 | 4.498 | 3.065 | 4.597 | 3.939 | 4.345 | 3.299 | 3.987 | 3.306 |

表10 缓存算法在不同工作负载下的资源使用和能耗表现

Table 10 Resource usage and energy performance of caching algorithms underdifferent workload

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Distribution Access Pattern** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Average CPU Usage(%)** | baidutieba-4h | 16.967 | 17.807 | 15.569 | 18.571 | 17.589 | 18.843 | 17.664 | 18.486 | 17.796 |
| log106\_Messaging | 18.186 | 15.112 | 14.956 | 16.933 | 19.7 | 20.083 | 15.886 | 15.914 | 18.514 |
| mobi.trace.0 | 30.278 | 29.007 | 26.338 | 29.498 | 27.852 | 30.434 | 27.468 | 28.586 | 27.152 |
| **Average Power(W)** | baidutieba-4h | 2.315 | 2.243 | 2.401 | 2.239 | 2.275 | 2.274 | 2.297 | 2.281 | 2.268 |
| log106\_Messaging | 2.137 | 2.003 | 2.173 | 1.809 | 2.156 | 1.887 | 2.038 | 2.005 | 1.913 |
| mobi.trace.0 | 3.327 | 3.373 | 3.354 | 3.295 | 3.229 | 3.347 | 3.404 | 3.334 | 3.272 |
| **Energy(J)** | baidutieba-4h | 6929.935 | 6405.845 | 14131.374 | 6251.683 | 6690.872 | 6465.95 | 6860.91 | 6451.541 | 6996.009 |
| log106\_Messaging | 6879.233 | 5893.107 | 15908.836 | 4803.744 | 6455.658 | 5071.007 | 5564.261 | 5364.385 | 5350.528 |
| mobi.trace.0 | 28393.931 | 24576.999 | 35860.624 | 23482.023 | 26868.111 | 25244.774 | 33815.801 | 27400.032 | 32422.939 |

表11 缓存算法在baidutieba-4h工作负载下的性能表现

Table 11 Performance of caching algorithms under baidutieba-4h workload

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Cache Size** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Hit Ratio** | 0.02 | 0.801 | 0.833 | 0.519 | 0.837 | 0.829 | 0.835 | 0.835 | 0.833 | 0.816 |
| 0.04 | 0.882 | 0.908 | 0.4 | 0.92 | 0.9 | 0.917 | 0.911 | 0.916 | 0.891 |
| 0.06 | 0.912 | 0.936 | 0.402 | 0.948 | 0.927 | 0.945 | 0.934 | 0.942 | 0.899 |
| 0.08 | 0.93 | 0.951 | 0.505 | 0.96 | 0.944 | 0.958 | 0.948 | 0.956 | 0.931 |
| 0.1 | 0.941 | 0.957 | 0.588 | 0.966 | 0.953 | 0.965 | 0.956 | 0.962 | 0.935 |
| **P99 Latency(ms)** | 0.02 | 14.207 | 10.903 | 17.113 | 10.949 | 13.799 | 12.532 | 15.839 | 13.132 | 14.912 |
| 0.04 | 9.818 | 9.037 | 17.155 | 9.116 | 9.678 | 9.174 | 9.96 | 9.165 | 10.594 |
| 0.06 | 8.791 | 8.684 | 15.386 | 7.917 | 8.809 | 8.244 | 8.386 | 8.054 | 9.476 |
| 0.08 | 7.863 | 7.587 | 15.482 | 7.305 | 7.635 | 7.236 | 7.658 | 7.527 | 8.827 |
| 0.1 | 7.718 | 7.298 | 14.97 | 6.453 | 7.465 | 6.642 | 7.555 | 7.109 | 8.092 |
| **Average Latency(ms)** | 0.02 | 0.134 | 0.123 | 0.186 | 0.122 | 0.128 | 0.126 | 0.132 | 0.126 | 0.133 |
| 0.04 | 0.106 | 0.097 | 0.203 | 0.095 | 0.104 | 0.097 | 0.101 | 0.096 | 0.106 |
| 0.06 | 0.095 | 0.09 | 0.197 | 0.089 | 0.097 | 0.088 | 0.091 | 0.086 | 0.101 |
| 0.08 | 0.089 | 0.084 | 0.185 | 0.083 | 0.086 | 0.083 | 0.087 | 0.082 | 0.093 |
| 0.1 | 0.086 | 0.082 | 0.173 | 0.08 | 0.085 | 0.082 | 0.086 | 0.081 | 0.089 |
| **Bandwidth(MB/s)** | 0.02 | 7.117 | 7.773 | 5.177 | 7.841 | 7.444 | 7.56 | 7.217 | 7.559 | 7.194 |
| 0.04 | 8.949 | 9.743 | 4.749 | 9.959 | 9.147 | 9.821 | 9.4 | 9.849 | 8.979 |
| 0.06 | 9.931 | 10.545 | 4.886 | 10.614 | 9.719 | 10.797 | 10.382 | 10.968 | 9.426 |
| 0.08 | 10.559 | 11.228 | 5.192 | 11.296 | 10.955 | 11.359 | 10.818 | 11.452 | 10.179 |
| 0.1 | 10.947 | 11.471 | 5.569 | 11.733 | 11.142 | 11.525 | 10.971 | 11.588 | 10.623 |

表12 缓存算法在baidutieba-4h工作负载下的资源使用和能耗表现

Table 12 Resource usage and energy performance of caching algorithms underbaidutieba-4h workload

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Cache Size** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Average CPU Usage(%)** | 0.02 | 16.297 | 16.668 | 15.14 | 16.381 | 15.764 | 15.806 | 16.036 | 15.544 | 15.769 |
| 0.04 | 17.487 | 16.926 | 15.03 | 16.878 | 16.762 | 17.744 | 16.883 | 17.152 | 16.883 |
| 0.06 | 17.824 | 16.7 | 15.098 | 17.987 | 16.933 | 18.993 | 17.768 | 17.786 | 17.75 |
| 0.08 | 17.654 | 17.035 | 16.055 | 17.677 | 17.011 | 18.939 | 18.873 | 18.417 | 18.123 |
| 0.1 | 16.967 | 17.807 | 15.569 | 18.571 | 17.589 | 18.843 | 17.664 | 18.486 | 17.796 |
| **Average Power(W)** | 0.02 | 2.307 | 2.36 | 2.395 | 2.364 | 2.333 | 2.347 | 2.381 | 2.345 | 2.343 |
| 0.04 | 2.32 | 2.296 | 2.371 | 2.291 | 2.355 | 2.236 | 2.287 | 2.26 | 2.298 |
| 0.06 | 2.325 | 2.3 | 2.409 | 2.268 | 2.232 | 2.32 | 2.333 | 2.286 | 2.332 |
| 0.08 | 2.321 | 2.239 | 2.372 | 2.308 | 2.26 | 2.196 | 2.27 | 2.237 | 2.292 |
| 0.1 | 2.315 | 2.243 | 2.401 | 2.239 | 2.275 | 2.274 | 2.297 | 2.281 | 2.268 |
| **Energy(J)** | 0.02 | 10621.519 | 9946.661 | 15157.414 | 9879.809 | 10271.823 | 10174.381 | 10812.637 | 10164.409 | 10670.449 |
| 0.04 | 8493.712 | 7722.876 | 16359.76 | 7537.282 | 8437.345 | 7460.397 | 7971.463 | 7518.402 | 8385.36 |
| 0.06 | 7670.996 | 7147.29 | 16152.437 | 7003.143 | 7525.98 | 7039.876 | 7364.883 | 6830.328 | 8106.875 |
| 0.08 | 7201.892 | 6533.913 | 14968.249 | 6696.112 | 6760.644 | 6335.751 | 6876.974 | 6401.643 | 7379.504 |
| 0.1 | 6929.935 | 6405.845 | 14131.374 | 6251.683 | 6690.872 | 6465.95 | 6860.91 | 6451.541 | 6996.009 |

1. 不同工作负载对于缓存算法的影响

工作负载类型直接影响缓存算法的效率。三种工作负载baidutieba-4h、log106\_Messaging和mobi.trace.0分别收集自智能手机上三种不同的移动应用程序，具有不同的读写请求数量、比例和大小。从实验结果可以明显观察到，三种工作负载的命中率从低到高依次为mobi.trace.0、log106\_Messaging和baidutieba-4h。如表9和表10所示，与mobi.trace.0工作负载相比，FIFO在baidutieba-4h工作负载下的命中率提高了44.344%。此外，三种工作负载的尾延迟从高到低依次为log106\_Messaging、mobi.trace.0和baidutieba-4h。与log106\_Messaging工作负载相比，FIFO在baidutieba-4h工作负载下的尾延迟降低了63.843%。其主要原因在于三种工作负载中的读请求比例从低到高依次为log106\_Messaging、mobi.trace.0和baidutieba-4h，即使命中率再高也无法有效降低尾延迟，这进一步证明了读操作比例对缓存算法的决定性作用。

此外，实验结果还显示，在mobi.trace.0工作负载下，各种缓存算法的命中率和性能差异不大，甚至LRU算法的命中率还要高于2Q、ARC、LIRS、CLOCK-Pro、TinyLFU等算法，在这种情况下，选择实现简单且开销低的缓存算法即可满足需求，无需采用代价更高的复杂算法。其主要原因在于mobi.trace.0工作负载的Locality较差，Trace本身缺乏访问热点，即使是高级缓存算法也无法有效捕捉热数据，这进一步证明了访问局部性对缓存算法的决定性作用。

在CPU资源使用方面，随着带宽的提升，CPU使用率逐渐降低，特别是在log106\_Messaging工作负载下，CPU使用率降至最低。例如，与baidutieba-4h和mobi.trace.0相比，LRU在log106\_Messaging工作负载下的CPU使用率分别降低了3.937%和43.215%，其他缓存算法也有类似表现。在功耗方面，三种工作负载的功耗从高到低依次为mobi.trace.0、baidutieba-4h和log106\_Messaging。例如，与baidutieba-4h和mobi.trace.0相比，LRU在log106\_Messaging工作负载下的功耗分别降低了19.205%和45.099%，其他缓存算法也有类似表现。因为不同工作负载间的功耗差距较大，所以功耗和性能共同成为决定能耗的主要因素。实验结果清晰显示，各类算法在mobi.trace.0工作负载下的能耗最高，而在log106\_Messaging工作负载下能耗最低。例如，与mobi.trace.0工作负载相比，LIRS在log106\_Messaging工作负载下的能耗下降了83.545%。

1. 不同缓存大小对于缓存算法的影响

缓存大小直接关系到缓存算法的效率。从实验结果中可以观察到，随着缓存大小的增加，不同缓存算法的命中率和性能也在逐步提升，缓存效率最高的LRU的缓存效率提升最为不显著，Random则最为显著。如表9 缓存算法在不同工作负载下的性能表现

Table 9 Performance of caching algorithms under different workload

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Distribution Access Pattern** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Hit Ratio** | baidutieba-4h | 0.941 | 0.957 | 0.588 | 0.966 | 0.953 | 0.965 | 0.956 | 0.962 | 0.935 |
| log106\_Messaging | 0.838 | 0.893 | 0.616 | 0.929 | 0.887 | 0.928 | 0.919 | 0.921 | 0.912 |
| mobi.trace.0 | 0.66 | 0.663 | 0.602 | 0.662 | 0.646 | 0.682 | 0.595 | 0.617 | 0.602 |
| **P99 Latency(ms)** | baidutieba-4h | 7.718 | 7.298 | 14.97 | 6.453 | 7.465 | 6.642 | 7.555 | 7.109 | 8.092 |
| log106\_Messaging | 12.718 | 13.212 | 21.115 | 12.818 | 14.198 | 13.507 | 12.608 | 12.741 | 13.802 |
| mobi.trace.0 | 5.201 | 4.777 | 5.501 | 4.709 | 4.944 | 4.668 | 5.177 | 4.927 | 5.27 |
| **Average Latency(ms)** | baidutieba-4h | 0.086 | 0.082 | 0.173 | 0.08 | 0.085 | 0.082 | 0.086 | 0.081 | 0.089 |
| log106\_Messaging | 0.141 | 0.129 | 0.326 | 0.116 | 0.131 | 0.118 | 0.119 | 0.117 | 0.122 |
| mobi.trace.0 | 0.115 | 0.098 | 0.145 | 0.096 | 0.112 | 0.101 | 0.135 | 0.111 | 0.134 |
| **Bandwidth(MB/s)** | baidutieba-4h | 10.947 | 11.471 | 5.569 | 11.733 | 11.142 | 11.525 | 10.971 | 11.588 | 10.623 |
| log106\_Messaging | 10.181 | 11.139 | 4.476 | 12.34 | 10.942 | 12.192 | 12.004 | 12.248 | 11.716 |
| mobi.trace.0 | 3.84 | 4.498 | 3.065 | 4.597 | 3.939 | 4.345 | 3.299 | 3.987 | 3.306 |

表10 缓存算法在不同工作负载下的资源使用和能耗表现

Table 10 Resource usage and energy performance of caching algorithms underdifferent workload

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Index** | **Distribution Access Pattern** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| **Average CPU Usage(%)** | baidutieba-4h | 16.967 | 17.807 | 15.569 | 18.571 | 17.589 | 18.843 | 17.664 | 18.486 | 17.796 |
| log106\_Messaging | 18.186 | 15.112 | 14.956 | 16.933 | 19.7 | 20.083 | 15.886 | 15.914 | 18.514 |
| mobi.trace.0 | 30.278 | 29.007 | 26.338 | 29.498 | 27.852 | 30.434 | 27.468 | 28.586 | 27.152 |
| **Average Power(W)** | baidutieba-4h | 2.315 | 2.243 | 2.401 | 2.239 | 2.275 | 2.274 | 2.297 | 2.281 | 2.268 |
| log106\_Messaging | 2.137 | 2.003 | 2.173 | 1.809 | 2.156 | 1.887 | 2.038 | 2.005 | 1.913 |
| mobi.trace.0 | 3.327 | 3.373 | 3.354 | 3.295 | 3.229 | 3.347 | 3.404 | 3.334 | 3.272 |
| **Energy(J)** | baidutieba-4h | 6929.935 | 6405.845 | 14131.374 | 6251.683 | 6690.872 | 6465.95 | 6860.91 | 6451.541 | 6996.009 |
| log106\_Messaging | 6879.233 | 5893.107 | 15908.836 | 4803.744 | 6455.658 | 5071.007 | 5564.261 | 5364.385 | 5350.528 |
| mobi.trace.0 | 28393.931 | 24576.999 | 35860.624 | 23482.023 | 26868.111 | 25244.774 | 33815.801 | 27400.032 | 32422.939 |

表11和表12所示，与缓存大小为0.02时相比，LRU在缓存大小为0.1时的命中率和带宽分别提升了13.295%和7.572%，而延迟和尾延迟分别降低了34.426%和41.063%；Random在缓存大小为0.1时的命中率和带宽分别提升了17.478%和53.815%，而延迟和尾延迟分别降低了35.821%和45.675%，明显高于LRU的性能提升。

此外，实验结果还显示，在不同缓存大小下，真实Trace下不同缓存算法的命中率和性能的相对大小几乎一致。在这种情况下，若已知在特定工作负载下具有较高缓存效率的算法，在其他条件一定时，则可以在任意缓存大小条件下选择该算法，并且通过增加缓存大小进一步提升算法性能。这进一步证明了缓存大小对算法性能的提升作用是较为独立且显著的。

在CPU资源使用方面，随着性能的提升，CPU使用率整体提升。例如，相对于缓存大小为0.02时，ARC在缓存大小为0.1时的CPU使用率提升了19.214%，绝对值和提升幅度在所有缓存算法中位列第一。在功耗方面，针对不同的缓存大小，各种缓存算法的功耗基本相近，维持在2.306 W左右。因此，最终决定能耗的主要因素在于性能。实验结果清晰显示，各类算法的能耗随着缓存的增大而降低。例如，与缓存大小为0.02时相比，CLOCK-Pro在缓存大小为0.1时的能耗下降了36.528%。

**小结**：工作负载类型直接影响缓存算法的效率和资源使用。随着缓存的增加，缓存算法的命中率和性能逐步提升，功耗基本接近，CPU使用率和能耗逐步降低。

（2）缓存算法本身的开销

当访问地址空间为125MB、读操作比例为0.6、数据块大小为64KB、缓存大小为0.1、IO为Off时，缓存算法在工作负载Latest上的表现如下表21所示。对比**错误!未找到引用源。**和表21，IO为Off时的延迟和尾延迟分别最高仅占IO为On时的1.408%和1.677%，能耗最高仅占3.024%。除此之外，IO为Off时不同算法之间的性能和能耗差距并不大，而且除了缓存命中率之外IO为On和Off时各个指标的相对大小并不对应，可见算法本身的性能和能耗对实际的性能和能耗的影响较小。

（3）横向比较缓存算法的表现

为了探究不同缓存算法适应的工作负载类型，表22和表23展示了访问地址空间为125MB、读操作比例为0.8、数据块大小为64KB的工作负载Uniform、Latest和Zipfian以及真实工作负载baidutieba-4h、log106\_Messaging和mobi.trace.0在缓存大小为0.8、IO为On的条件下的缓存命中率和带宽热力表。每一行独立比较，颜色越深则命中率越高。观察结果可得，在复杂算法中，ARC、LIRS、CLOCK-Pro和TinyLFU这四种算法在大多数情况下命中率表现出色，尤其以ARC适用性最广，2Q则仅在真实Trace有较高的命中率；在简单算法中，按总体表现来说从高到低依次为LRU、FIFO、Random和LFU，尤其以LRU适用性最广，LFU仅在YCSB-KVTracer Trace上有较高的命中率。复杂算法相对简单算法而言更适应工作负载Latest和Zipfian。

**小结**：缓存算法本身的开销几乎可以忽略不计，简单算法和复杂算法各有适用的工作负载。

**4.4　工作负载参数对缓存算法表现的影响**

（1）数据块大小对缓存算法表现的影响。

数据块大小对不同缓存算法表现的影响有相似的规律。以LRU为例，当访问地址空间为125MB、读操作比例为1、缓存大小为0.1、IO为On时，LRU在工作负载Latest上的表现如表13所示。

由表13可知，当其他条件一定时，随着数据块大小的增大，缓存命中率先增大后减小，不同算法的拐点不同；随着数据块大小的增大，延迟、尾延迟和平均功率总体增大（除了某些特殊情况）；随着数据块大小的增大，带宽和能耗越来越大；CPU使用率则不表现出明显的规律。

减少数据块大小可以有效提高存储系统性能，降低能耗，但带宽也会显著降低。

表13 LRU在工作负载Latest上的表现

Table 13 Performance of LRU on Workload Latest

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Block Size(KB)** | **1** | **4** | **16** | **64** | **256** |
| Hit Ratio | 0.654 | 0.678 | 0.728 | 0.721 | 0.676 |
| P99 Latency(ms) | 1.138 | 1.225 | 0.946 | 2.183 | 6.771 |
| Average Latency(ms) | 0.045 | 0.049 | 0.048 | 0.099 | 0.321 |
| Bandwidth  (MB/s) | 2.013 | 7.443 | 30.422 | 60.357 | 76.694 |
| Average CPU Usage(%) | 30.300 | 13.850 | 25.300 | 16.167 | 15.983 |
| Average Power(W) | 2.505 | 2.528 | 3.244 | 3.162 | 3.107 |
| Energy(J) | 40769.174 | 11127.818 | 3493.600 | 1716.420 | 1327.460 |

（2）读操作比例对缓存算法表现的影响。

读操作比例对不同缓存算法表现的影响有相似的规律。以LRU为例，当访问地址空间为125MB、数据块大小为64KB、缓存大小为0.1、IO为On时，LRU在工作负载上的表现如表14所示。

由表14可知，当其他条件一定时，随着读操作比例的增大，不同算法的缓存命中率几乎不受影响，延迟、尾延迟和能耗逐渐减小，带宽逐渐增大，CPU使用率和平均功率则不表现出明显的规律。由此可见，增大读操作比例可以有效提高存储系统性能，降低能耗。

表14 LRU在工作负载Latest上的表现

Figure 14 Performance of LRU on Workload Latest

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Operation Read Ratio** | **0** | **0.2** | **0.4** | **0.6** | **0.8** | **1** |
| Hit Ratio | 0.734 | 0.733 | 0.736 | 0.745 | 0.737 | 0.721 |
| P99 Latency(ms) | 6.023 | 7.229 | 7.245 | 7.062 | 6.756 | 2.183 |
| Average Latency(ms) | 0.145 | 0.144 | 0.142 | 0.125 | 0.113 | 0.099 |
| Total Time(s) | 2.989 | 2.964 | 2.931 | 2.585 | 2.339 | 2.071 |
| Bandwidth(MB/s) | 41.814 | 42.173 | 42.649 | 48.352 | 53.432 | 60.357 |
| Average CPU Usage(%) | 15.000 | 13.767 | 14.633 | 22.300 | 15.167 | 16.167 |
| Average Power(W) | 3.147 | 3.206 | 2.877 | 3.108 | 3.140 | 3.162 |
| Energy(J) | 2465.895 | 2490.776 | 2210.046 | 2106.205 | 1925.549 | 1716.420 |

**小结**：数据块大小和读操作比例对不同缓存算法的影响表现出相似的规律，增大两者可以有效提高存储系统性能，降低能耗。

（1）eMMC和Micro SDC缓存的有效性

为了验证eMMC和Micro SDC缓存的有效性，研究其相对于单纯使用eMMC和Micro SDC的表现提升，本文对比了相同情况下三者的表现。

表15展示了当访问地址空间为125MB、读操作比例为0、访问数据块大小为16KB时，在eMMC、Micro SDC和Cache(0.08, LRU)在工作负载Latest上的表现。Cache(0.08, LRU)指Cache Size为0.08，缓存算法为LRU的eMMC和Micro SDC缓存。观察结果显示，eMMC和Micro SDC缓存相比于单纯的Micro SDC，在访问延迟和尾延迟方面分别降低了84.615%和90.372%，在访问带宽上提升了4.939倍，在CPU使用率上降低了46.988%，虽然在功率上增大了4.384%，但减少了能耗99.783%；而相比于单纯的eMMC，在成本上降低了86.560%。

表15 eMMC、Micro SDC和Cache的表现

Table 15 Performance of eMMC, Micro SDC and Cache

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Performance Index** | **eMMC** | **Micro SDC** | **Cache** | **Increase/**  **Decrease** |
| Hit Ratio | / | / | 0.718 | / |
| P99 Latency(ms) | 0.347 | 4.196 | 0.404 | 90.372%↓ |
| Average Latency(ms) | 0.026 | 0.169 | 0.026 | 84.615%↓ |
| Bandwidth(MB/s) | 53.650 | 9.011 | 53.513 | **493.863%↑** |
| Average CPU Usage(%) | 27.800 | 16.600 | 8.800 | 46.988%↓ |
| Average Power(W) | 2.570 | 2.874 | 3.000 | 4.384%↑ |
| Energy(J) | 4518737.735 | 848491.907 | 1837.008 | **99.783%↓** |
| Price(￥) | 1.250 | 0.068 | 0.168 | 86.560%↓ |

**小结**：相比单纯使用Micro SDC，eMMC和Micro SDC缓存有效地提升了4.939倍的系统性能、降低了46.988%的CPU使用率和99.783%的能耗，相比于单纯的eMMC降低了86.560%成本。

（2）缓存大小的选择

验证了eMMC和Micro SDC缓存的可行性后，本文进一步研究不同情况下缓存大小的选择问题。

① 缓存大小的选择主要由可接受成本、预期表现提升决定；

九种缓存算法在不同工作负载上的表现一致。以FIFO为例，表17展示了当访问地址空间为125MB、读操作比例为0.6、数据块大小为256KB、IO为On时，FIFO在工作负载Latest上的表现。

观察结果显示，随着缓存的增大，eMMC和Micro SDC缓存的性能提高、能耗降低，而成本也随之提高。随着缓存从1KB增大到256KB，缓存命中率提高了79.161%，访问延迟和尾延迟分别降低了28.482%和23.543%，带宽提高了39.439%，能耗降低了29.245%，但成本也提高了1.075倍。

而资源使用和功率几乎不受缓存大小的影响。CPU使用率和平均功率则对缓存大小的变化不敏感，而且变化幅度较小，最大值相对最小值提升的比例不超过8%。因为平均功率的变化幅度不大，所以能耗几乎由总时间决定。因此，缓存增长带来的资源使用和功率的开销是可以不作为如何选择最佳缓存大小的考虑因素的。

所以这个问题就落脚在可接受成本与预期表现提升（主要体现在性能提升和能耗降低上）上。可接受成本越高，预期表现提升要求越高，就选用更大的缓存。然而，在特殊情况下，也需要考虑访问模式和缓存算法的影响。

② 缓存大小的选择受访问请求分布的影响；

性能提升的程度是有上限的，在某些访问请求分布下，提升瓶颈来得很快。如表17所示，尾延迟在缓存大小为0.08时就接近了最低值，这时再提高缓存大小，尾延迟甚至不降反升，维持着略超出24的值。但是其延迟还能进一步降低，带宽还能进一步提高。因此需要综合考虑对不同指标的需求。

③ 缓存大小的选择受缓存算法的影响。

有时复杂缓存算法在缓存较小时性能相对更好。当访问地址空间为125MB、读操作比例为1、数据块大小为256KB、IO为On时，缓存算法在工作负载Uniform上的命中率如所示。在工作负载Uniform上，当缓存大小为0.08、0.1时，FIFO的命中率最高；而在缓存大小为0.02、0.04、0.06时，命中率最高的算法分别是TinyLFU、CLOCK-Pro和LIRS这三种复杂算法。可见有时复杂缓存算法在缓存较小时性能相对更好。

![图表, 条形图

描述已自动生成](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAQrwAACz7CAYAAABWLQ25AAAAOXRFWHRTb2Z0d2FyZQBNYXRwbG90bGliIHZlcnNpb24zLjguMCwgaHR0cHM6Ly9tYXRwbG90bGliLm9yZy81sbWrAAAACXBIWXMAATOUAAEzlAGyD44SAAEK8ElEQVR4nOzOgQmAAAwDMO3/P88rSkGSC/Le3T0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/lnUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgLesAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAW9YBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAtqwDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAbVkHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2rIOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAtGUdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAaMs6AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA0JZ1AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAoC3rAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQFvWAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgLasAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1ZBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANqyDgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALRlHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGjLOgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCWdQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKAt6wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBb1gEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIC2rAMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABtWQcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADasg4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC0ZR0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABoyzoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQlnUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgLesAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAW9YBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAtqwDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAbVkHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA2rIOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAtGUdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAaMs6AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA0JZ1AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAoC3rAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQFvWAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgLasAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1ZBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANqyDgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALRlHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGjLOgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCWdQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKAt6wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBb1gEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIC2rAMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABtWQcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADasg4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC0ZR0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABoyzoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQlnUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgLesAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAW9YBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQN1S6QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIC6pdIBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAdUulAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOqWSgcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADULZUOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAqFsqHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFC3VDoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgbql0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQN1S6QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIC6pdIBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAdUulAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOqWSgcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADULZUOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAqFsqHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFC3VDoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgbql0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQN1S6QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIC6pdIBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAdUulAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOqWSgcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADULZUOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAqFsqHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFC3VDoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgbql0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQN1S6QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIC6pdIBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAdUulAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOqWSgcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADULZUOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAqFsqHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFC3VDoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgbql0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQN1S6QAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAP7H7hzTAAAAIADa7B/aFM4HEgAAAAAAAAAAAAAAAAAAAACs5R0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABYyzsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACwlncAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABgLe8AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAWt4BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAtbwDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAa3kHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA1vIOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAArOUdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAWMs7AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAsJZ3AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAYC3vAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwFreAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgLW8AwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGt5BwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANbyDgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKzlHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFjLOwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALCWdwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGAt7wAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAA/+N93+N5nnUDAAAAAAAAAAAAfi7rAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQFvWAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgLasAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1ZBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANqyDgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALRlHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGjLOgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANCWdQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKAt6wAAAAAAAADAl307DbKqvvM//uWyIxdwXEZUFsUFhIgCRsHrUq5RQ7lEVIx7JJqJcYtOohxNHD3RuEfcJZKIisgEXG8MiiYaI0jUgAuocUFcAEEQAkI3dP8f/GesOGkV6G5+dPfrVcWDrnP7/N6nqov7qa7bAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD1rZA6AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAoL4VUgcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADUt0LqAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgPpWSB0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABQ3wqpAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOpbIXUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAfSukDgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKhvhdQBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA9a2QOgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKC+FVIHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA1LdC6gAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAID6VkgdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUN8KqQMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADqWyF1AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQH0rpA4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACob4XUAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPWtReoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACapkKhEJ07d06dAfVmyZIlsXjx4tQZAAAAAAAAAADA/2iROgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgKapc+fO8f7776fOgHqR53lkWZY6AwAAAAAAAAAA+CctUgcAADQVn332WSxcuDCWL18eFRUVUVlZGc2aNYtWrVpFq1atYoMNNohOnTpFy5YtU6cCNGmPPfZYTJ48+Uuvn3322dGpU6d1FwTrSHV1dSxevDg+/fTTqKioiIqKili5cmW0bNkyWrZsGa1bt44OHTpEhw4dolmzZqlzAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGC9lud5ZFmWOgMAAAAAAAAAAPg/WqQOAABoLObOnRszZsyImTNnxuuvvx7vvfdevP/++/H+++/HggULYsWKFat1nw022CA23njj2HLLLWPLLbeMbt26xXbbbRc9e/aMnj17xkYbbVTPTwLQ9FRWVsZ9990XV111Vbz88stf+dqTTjopOnXqtG7CoA6tWrUq/v73v8fMmTNj5syZ8dZbb8Xs2bNj9uzZ8dFHH8WiRYuiqqrqa+9TKBSiY8eOsdlmm32+V3r06BHbb7/95/9atWq1Dp4IAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANZPeZ5HlmWpMwAAAAAAAAAAgBq0SB0AANAQrVixIiZPnhzPPPNMTJ06NaZOnRofffRRndx76dKlsXTp0pg1a1aN17t16xb9+/ePAQMGxJ577hm77LJLtGrVqk7OBmhqlixZErfffntcf/318f7776fOgTo1d+7c+OMf/xh/+ctf4q9//Wv87W9/i2XLltX6vlVVVbFw4cJYuHBhzJgx41+ut2rVKvr06RP9+/ePXXfdNfbaa6/YZpttan0uAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQEeZ5HlmWpMwAAAAAAAAAAgC/RInUAAEBDMWPGjHjkkUfi97//fTz33HOxfPnyJB2zZs2KWbNmxfjx4yMiom3btjFw4MA46KCD4pBDDolevXol6QJoSD788MO44YYb4tZbb41PP/00dQ7UiYqKivjTn/4UjzzySEycODFmzpyZrOPFF1+MF198Me64446IiNh8881j3333jUMOOSQOPPDA6NSpU5I2AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKhPeZ5HlmWpMwAAAAAAAAAAgK/QInUAAMD6bPr06TFmzJgYN25cvPXWW6lzavTZZ5/Fk08+GU8++WScf/75sfXWW8eQIUPi6KOPjp133jl1HsB6ZcaMGXH11VfH3XffHRUVFalzoNZWrFgRjz32WIwZMybK5XIsWbIkdVKNPvzwwxg9enSMHj06mjdvHnvuuWccffTR8Z3vfCc23njj1HkAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUGt5nkeWZakzAAAAAAAAAACAr1FIHQAAsL6ZP39+XHPNNdG7d+/o27dvXHHFFfHWW2+lzlptb7/9dvzyl7+Mfv36xfbbbx9XXHFFzJkzJ3UWQFLPPPNMDB48OHr37h133nlnVFRUpE6CWnnhhRfitNNOi3//93+Pww47LMaOHRtLlixJnbVaVq1aFU899VScfvrpsdlmm8XBBx8cv/vd76KysjJ1GgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACslTzPI8uy1BkAAAAAAAAAAMBqKKQOAABYXzz33HNxzDHHxBZbbBHnnXdevPbaa6mTau2NN96ICy64ILp06RKHH354PPXUU6mTANaZqqqq+N3vfhe77bZb7LnnnvHII49EdXV16ixYa8uXL4+RI0dGv379YsCAAXH77bfHp59+mjqrVlatWhW///3v48gjj4wtt9wyLrjggvjggw9SZwEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAasvzPLIsS50BAAAAAAAAAACspkLqAACAlKqqqmLcuHGx2267xaBBg2Ls2LFRUVGROqvOrVy5Mh544IHYZ599Yqeddoq77rorVq5cmToLoF4sX748br311th+++3jyCOPjClTpqROglqZP39+/PznP4+uXbvGsGHD4qWXXkqdV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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPhs9t4xxoi1VnblUu89WmvZDQD4UEopMeeMWmt25dJxHHGeZ3YDAIBXeDwe8Xw+436/Z1cAAADevFt2AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOAz2XvHGCPWWtmVS733aK1lNwDgQyqlxJwzaq3ZlUvHccR5ntkNAABe4fF4xPP5jPv9nl0BAAB4027ZAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIDPYu8dY4xYa2VXLvXeo7WW3QCAD62UEnPOqLVmVy4dxxHneWY3AAB4hcfjEc/nM+73e3YFAADgzbplBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA+g713jDFirZVdudR7j9ZadgMAPoVSSsw5o9aaXbl0HEec55ndAADgFR6PRzyfz7jf79kVAACAN+mWHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD46PbeMcaItVZ25VLvPVpr2Q0A+FRKKTHnjFprduXScRxxnmd2AwCAV3g8HvF8PuN+v2dXAAAA3pxbdgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADgI9t7xxgj1lrZlUu992itZTcA4FMqpcScM2qt2ZVLx3HEeZ7ZDQAAXuHxeMTz+Yz7/Z5dAQAAeFNu2QEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAj2rvHWOMWGtlVy713qO1lt0AgE+tlBJzzqi1ZlcuHccR53lmNwAAeIXH4xHP5zPu93t2BQAA4M24ZQcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPqK9d4wxYq2VXbnUe4/WWnYDAIiIUkrMOaPWml25dBxHnOeZ3QAA4BUej0c8n8+43+/ZFQAAgDfhlh0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA+Gj23jHGiLVWduVS7z1aa9kNAOC/KaXEnDNqrdmVS8dxxHme2Q0AAF7h8XjE8/mM+/2eXQEAAEh3yw4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAfCR77xhjxForu3Kp9x6ttewGAHChlBJzzqi1ZlcuHccR53lmNwAAeIXH4xHP5zPu93t2BQAAINUtOwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADwUey9Y4wRa63syqXee7TWshsAwF9RSok5Z9RasyuXjuOI8zyzGwAAvMLj8Yjn8xn3+z27AgAAkOaWHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAD4CPbeMcaItVZ25VLvPVpr2Q0A4O9QSok5Z9RasyuXjuOI8zyzGwAAvMLj8Yjn8xn3+z27AgAAkOKWHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB47/beMcaItVZ25VLvPVpr2Q0A4CcopcScM2qt2ZVLx3HEeZ7ZDQAAXuHxeMTz+Yz7/Z5dAQAA+OZu2QEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACA92zvHWOMWGtlVy713qO1lt0AAF6hlBJzzqi1ZlcuHccR53lmNwAAeIXH4xHP5zPu93t2BQAA4Ju6ZQcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3qu9d4wxYq2VXbnUe4/WWnYDAPgZSikx54xaa3bl0nEccZ5ndgMAgFd4PB7xfD7jfr9nVwAAAL6ZW3YAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4D3ae8cYI9Za2ZVLvfdorWU3AIBfQCkl5pxRa82uXDqOI87zzG4AAPAKj8cjns9n3O/37AoAAMA3ccsOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALw3e+8YY8RaK7tyqfcerbXsBgDwCyqlxJwzaq3ZlUvHccR5ntkNAABe4fF4xPP5jPv9nl0BAAD46m7ZAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAID3ZO8dY4xYa2VXLvXeo7WW3QAAvoJSSsw5o9aaXbl0HEec55ndAADgFR6PRzyfz+wGAADAV3fLDgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC8F3vvGGPEWiu7cqn3Hq217AYA8BWVUmLOGbXW7Mql4zjiPM/sBgAAr/B4POIf//EfsxsAAABf1S07AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPAe7L1jjBFrrezKpd57tNayGwDAN1BKiTln1FqzK5eO44jzPLMbAAC8wq9+9avsAgAAwFf1XXYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOCtuN1u8bvf/S67Ae/CH//4x/jzn/+c3QAAAAD4ZvbeMcaItVZ25VLvPVpr2Q0A4BsqpcScM57PZ7y8vGR3fuQ4joiI+PLlS/IEAAAAAAD+n++yAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAb8Xvfve7+Nd//dfsBrwL//RP/xTff/99dgMAAADgm9h7xxgj1lrZlUu992itZTcAgASllJhzxvP5jJeXl+zOjxzHERERX758SZ4AAAAAAMD/cssOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALxVe+8YY8RaK7tyqfcerbXsBgCQqJQSc86otWZXLh3HEed5ZjcAAAAAACAiIm7ZAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIC3aO8dY4xYa2VXLvXeo7WW3QAA3oBSSsw5o9aaXbl0HEec55ndAAAAAACAuGUHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN6avXeMMWKtlV251HuP1lp2AwB4Q0opMeeMWmt25dJxHHGeZ3YDAAAAAIBP7pYdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHhL9t4xxoi1VnblUu89WmvZDQDgDSqlxJwzaq3ZlUvHccR5ntkNAAAAAAA+sVt2AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOCt2HvHGCPWWtmVS733aK1lNwCAN6yUEnPOqLVmVy4dxxHneWY3AAAAAAD4pG7ZAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIC3YO8dY4xYa2VXLvXeo7WW3QAA3oFSSsw5o9aaXbl0HEec55ndAAAAAADgE7plBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACy7b1jjBFrrezKpd57tNayGwDAO1JKiTln1FqzK5eO44jzPLMbAAAAAAB8MrfsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAECmvXeMMWKtlV251HuP1lp2AwB4h0opMeeMWmt25dJxHHGeZ3YDAAAAAIBP5JYdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMiy944xRqy1siuXeu/RWstuAADvWCkl5pxRa82uXDqOI87zzG4AAAAAAPBJ3LIDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABn23jHGiLVWduVS7z1aa9kNAOADKKXEnDNqrdmVS8dxxHme2Q0AAAAAAD6BW3YAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4Fvbe8cYI9Za2ZVLvfdorWU3AIAPpJQSc86otWZXLh3HEed5ZjcAAAAAAPjgbtkBAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA1FayAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGor2QEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC1lewAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACA2kp2AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQG0lOwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKC2kh0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABQW8kOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAqK1kBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANRWsgMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABqK9kBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAtZXsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgNpKdgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBtJTsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgtpIdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUFvJDgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKitZAcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADUVrIDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAaivZAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALWV7AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIDaSnYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAbSU7AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAoLaSHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFBbyQ4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACorWQHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA1FayAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGor2QEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC1lewAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACA2kp2AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQG0lOwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKC2kh0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABQW8kOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAqK1kBwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANRWsgMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABqK9kBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAtZXsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgNpKdgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBtJTsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgtpIdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUFvJDgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKitZAcAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADUVrIDAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAaivZAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALWV7AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIDaSnYAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABAbSU7AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAoLaSHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFBbyQ4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACorWQHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA1FayAwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGor2QEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC1lewAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACA2kp2AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQG0lOwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgNpKdgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBtJTsAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACgtpXZAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA17tmsxknT56Mn3/+OX755ZeYmJiIiYmJOHXqVExMTMTp06djamoqpqamYnJyMqampuL8+fMxNzcX8/Pzi7OwsBCrVq2K1tbWS87q1avjlltuiVtvvXXx+L+zfv362LhxY5RSsn+S60pHR0ccO3bsT9f7+vqiv79/6YIAAAAArmITExNx/PjxGBsbi7GxsRgfH4/x8fE4c+bM4vz+++8xOTkZc3Nzf5iIiLa2tmhtbY22trbFaW1tjbVr18b69esXZ8OGDYvHjRs3xoYNG5Lf/Op35513xvj4+P+df/rpp2P37t0JRde3hYWFGBoaikajEcPDwzEyMhI//fRTnD17dvF784oVK+KGG26INWvWxM033xzt7e3R0dERnZ2d0d3dHQ8++GC0tLRkvwoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAFbUyOwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA4Hpw5syZGB4ejpGRkRgeHo7h4eEYHR2NEydOxNjYWMzNzV2RfWZnZ2N2djYmJyf/1f2rVq2Ke++9N9rb2xeno6Nj8bhmzZor0sl/zczMxOjoaHYGAAAAwFVnfHw8hoaG4sCBA3H48OE4cuRIHDlyJE6fPn1Zzz137lycO3fuH9934403xubNm2PLli2Ls3nz5rjvvvti5cqVl9V0LRgdHY3x8fFLrl24cGGJa65fv/76a3z00Ufx6aefxt69e//2O/H8/HxcuHAhfvvttzh+/HgcOHDgD+vr1q2Lbdu2xfPPPx8vvPBCrF27tmY+AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAwJJoaTabzewIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAIBrxfT0dBw8eDC+//77P8zJkyez0y5bS0tLtLe3R1dXV3R1dcXDDz8cXV1dcc8992SnLVvfffddbN269S+v6evri/7+/qUJAgAAAEgwMzMT33zzTezZsyf27dsXQ0NDy+Z72urVq+ORRx6J7u7ueOyxx6K7uztuv/327Kwl98EHH8TLL798ybVHH300vv322yUuur7s2rUr3n333fjiiy9ibm6uyh5tbW3x3HPPxWuvvRZPPvlklT0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAlsLK7AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgOXq4sWL8eOPP8a+ffui0WhEo9GIH374Iebn57PTqmg2m3H06NE4evRofPzxx4vnb7rppnjooYdi69at8fjjj0dPT0/ccccdiaXLx/79+7MTAAAAAJbcxYsXo9FoxMDAQHz55ZfRaDRidnY2O+tfmZ6ejsHBwRgcHFw8d/fdd0d3d3c89dRT8eyzz0Z7e3ti4dL4+uuv/3Rtuf63y8Fnn30Wb7/9djQajep7zczMxI4dO2LHjh3R09MTb7zxRvT29lbfFwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAOBKa2k2m83sCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACA5WBubi72798fX331VezZsyf27t0bZ8+ezc66Km3atCl6enoW5/7774+WlpbsrKvOK6+8Eu+///5fXtPX1xf9/f1LEwQAAABQyfT0dAwMDMTnn38eAwMDcerUqeykJdPZ2Rnbt2+P7du3xxNPPBErVqzITrriOjs7Y2Rk5JJrW7ZsiUOHDi1x0bXt8OHD8eqrr8bu3btTO3p7e+O9996Ljo6O1A4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACAf6Kl2Ww2syMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAK5WBw8ejJ07d8bOnTtjcHAwzp8/n520LK1bty56enrimWeeid7e3ujs7MxOuio88MADcejQob+8pq+vL/r7+5cmCAAAAOAKmp+fj127dsWHH34Yn3zySUxNTWUnpbvtttvixRdfjJdeeim2bdsWLS0t2UmX7cSJE3HXXXf96fqmTZvi2LFjS1h07VpYWIi33nor3nnnnZidnc3OiYiItra2ePPNN+P111+PUkp2DgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMDfamk2m83sCAD+w96dhldZ3ov+/2UxhEDA2eCMqIhgHY+zaBBQ0EK0sLGKRUGtHofSbXW3zlbY1rK1deOp1rF0SylWreCEU0VxHioIOJW5iIKIzMN6gOT/4vwPe3M5MSS5V5LP57qeK7nCff/u71pJSPK8WQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEChWLFiRTzzzDPx1FNPxTPPPBOffPJJ6qR6qW3bttGjR4/o3r17dO7cOVq0aJE6qdb985//jD322OM711VUVMTo0aNrPggA6qiJEyf6WVlNzjnnnGjTpk3qDACgHpg+fXrcddddMXz48FiwYEHqnIK12267xVlnnRX9+/eP9u3bp87ZbPfee2+cf/753/jvu+yyi/us1eCzzz6LH/7whzF+/PjUKV+rS5cuMXLkyNhxxx1TpwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAB8q6Kqqqqq1BEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACktXLgwHn/88Xj00Ufjueeei1WrVqVOalCKi4ujU6dO0b179+jZs2e0a9cudVKtuOuuu+LCCy/8znUVFRUxevTomg8CgDpq+PDhMWDAgNQZ9cK4ceOivLw8dQYAUEdVVlbGY489FnfeeWc899xzUVVVlTqpTjnqqKPixz/+cfTt2zeaN2+eOmeTnHrqqTFmzJhv/PcddtghPv/881osqn9eeeWV6NOnT8yfPz91yrfaaaed4q9//WsceeSRqVMAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAvlEudQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAQAqLFy+O+++/P7p27RplZWUxYMCAeOyxx2LVqlWp0xqcfD4fzz//fFx++eWx7777xgEHHBA33nhjfPjhh6nTatSoUaNSJwAAAABssXw+H3fffXfsu+++cdppp8Wzzz4bVVVVqbPqnNdffz0GDBgQO++8c1x66aXx0UcfpU7aKKtXr47nn3/+W9dkWVZLNfXTE088ESeeeGLMnz8/dcp3+uyzz6JLly7x9NNPp04BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA+Ea51AEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAALVl9erV8dBDD8Vpp50WrVu3jnPPPTf+9re/xbp161Kn8T9Mnjw5rr/++ujQoUN07Ngxrr/++pgyZUrqrGo1Z86cGD9+fOoMAAAAgM22cuXK+I//+I/Yc88944ILLohp06alTqoXlixZEv/n//yf2G+//aJbt24xZsyYqKysTJ31jZ588slYsWLFt67J5/O1VFP/jBgxIk477bRYtWpV6pSNtnLlyujVq1eMGjUqdQoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADA18qlDgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAqGkTJkyISy65JHbaaafo27dvjB49OvL5fOosNsIHH3wQN954Y3zve9+L9u3bx7XXXhtTp05NnbXF7rjjjqisrEydAQAAALDJ1qxZE3feeWfstdde8W//9m/x2WefpU6qt55//vk49dRTo127dnH77bfHihUrUid9xYMPPvida7Isq4WS+ueRRx6Js88+O9auXZs6ZZOtWbMmzjrrrBgzZkzqFAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAICvyKUOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACoCUuXLo3f/e53ccghh8QhhxwSv/vd72Lx4sWps9gCH3/8cQwZMiTatWsXxxxzTNxzzz2xdOnS1FmbbPny5XHXXXelzgAAAADYZH/5y1+iQ4cOcdFFF8W8efNS5zQY06dPj5/85Cex6667xlVXXRXz589PnRQREV988UWMGTPmO9dVVlbGunXraqGo/njppZeiX79+UVlZmTpls61bty7OOOOMeOWVV1KnAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGwglzoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKA6ffjhh3HxxRfHLrvsEpdccklMmDAhdRI14LXXXosf//jH0bp16zjrrLPi+eefj8rKytRZG2Xo0KGxaNGi1BkAAAAAG+3999+Pzp07x+mnnx7Tpk1LndNgLV68OH71q19FmzZt4sILL0z+ubjvvvsiy7KNWrux64j4+OOPo6KiIvL5fOqULbZq1aro1atX8q9VAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAgP8plzoAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGBLVVZWxpgxY6Jr167RoUOHuOOOO2L58uWps6gFq1atij/96U/RrVu3aNOmTVxzzTUxffr01FnfaPbs2XHrrbemzgAAAADYKMuWLYvLL788DjrooHjxxRdT5/D/W716ddx1112x7777Rt++feOdd95J0nDbbbdt9Pp8Pl9zMfXI6tWro2/fvrFky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x/HHnvskTqnTKhYsWJcccUVMXHixOjYsWPqHAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAWG++fRUAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAKJW23377uOmmm+KHH36IwYMHR+fOnaNGjRqpsygBdevWjVtuuSWmTp0a/fr1iw4dOqROooi1b98+xo8fH+eee27k5uamztkg5cqVi2OOOSY+/vjjGDt2bJx66qmRl5eXOmujlS9fPh544IH46KOPYuedd06ds8F22mmneOedd2LAgAHRqFGj1DmbnM033zwefPDBGDduXBx77LGRk5OTOqnU2XvvvePdd9+NL774Ivbff//UOQD8X3l5edGlS5f44Ycf4sYbb4wqVaqkTiqVqlWrFt27d48ffvghLrroolJ7TQAloV27dvHxxx/HFltskTolIv7PtXDHjh3jgw8+iKlTp0b37t1j++23T51FRLRs2TI++uijGDp0aLRt2zZ1DmSNtWvXpk6AjZKfn586oVRp3759jBo1Kl544YWoU6dO6pxSKTc3N84444z4/vvv44EHHsia81AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFhfvjkZAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACjVcnJyok2bNvHMM8/EnDlzom/fvnHaaadFtWrVUqdRhPLy8uKYY46Jfv36xdSpU6N79+5Rt27d1FkUo5o1a8azzz4bI0eOjBYtWqTOWWfbbbdd3HzzzTF16tTo06dPtG/fPnVSsTj00ENjwoQJcdddd0XVqlVT56yznXfeOZ577rmYNGlSdOzYMXXOJq9hw4bRu3fvGDVqVBx99NGpc0qF/fbbLz744IP44osv/JsBZLFq1arF7bffHpMnT45u3bpFlSpVUieVCuXLl49LLrkkpkyZErfcckupOs+EFFq0aBHvvvtuVKxYMXXK76pbt27ccsst8dNPP8XHH38cf/7zn6Ny5cqpszYp5cqVi+OPPz4+//zzGDZsWBx66KGpkwAoQlWrVnWtsQFyc3PjrLPOiu+//z7uv//+2G677VInlRqHH354jBkzJl566aXYfvvtU+cAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMBGyU0dAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABQVMqXLx9HHHFEvPLKKzFv3rx4//33o3PnzlGrVq3UaWyA3NzcaN26dTz66KMxY8aM6NOnTxx++OGRm5ubOo0StNdee8Vnn30W7733XrRu3Tp1zu/acsst45xzzolPPvkkpk+fHrfeemvUqVMndVaxq1ChQlx33XUxderU6N69e9SsWTN10n90wAEHxOuvvx6TJk2Kc845J8qXL586if9hzz33jHfffTe++uqrOPHEEyMvLy91UlbJycmJ9u3bR//+/eOzzz6LDh06pE4CYB3Vrl07HnnkkZg+fXrcfPPNUaNGjdRJWWmLLbaIK664IiZPnhyPPfZYVp9XQraoW7du9OnTJ6pUqZI65Q/l5uZG+/bto2fPnjF79ux46qmnomXLlpGTk5M6rcyqUaNGXHbZZTF58uR46623Yt99902dBEAxyM/PT51QqlWuXDn+8pe/xI8//hjPPvts7LrrrqmTslJeXl6ccMIJMWLEiOjXr180adIkdRIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABSJnEwmk0kdAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABQnDKZTHz++efx3nvvxQcffBDjx4+PTCaTOovfUa5cuWjdunUcf/zxceyxx8Y222yTOoks8+WXX8ZDDz0U7777bixbtixZx3bbbRcdOnSIo446Kg499NCoWLFispZssXz58nj99dfj1VdfjSFDhkRhYWHSnjp16sSJJ54Y5513XjRs2DBpC+tn5syZ8fjjj8czzzwTCxYsSJ2TzFZbbRVnn312XHjhhbHTTjulzslqL774Ypx99tmpM/gdt9xyS3Tv3n299pk6dWrssMMOxRPERmnTpk0MHjw4dUaptnTp0njxxRfjmWeeibFjx6bOSW6nnXaKbt26xTnnnBNVq1ZNnQPJFBQURPXq1dd5+7y8vBg2bFjsu+++xVhV/KZNmxY9e/aMnj17xoQJE1LnlHo5OTnRpk2b6Ny5cxx33HFRqVKl1EllStu2bWPIkCGpM1gP9erVi6lTp/7hdvXr149p06YVfxAUgxYtWsSIESNSZ5QZhYWF8d5778VTTz0V/fv3T35/O7Utt9wyOnfuHF27do3tt98+dQ4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABS5nEwmk0kdAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAABQkubOnRv9+/eP/v37x4ABA2Lu3LmpkzZpm2++ebRt2zaOOOKI6NSpU9SsWTN1EqXAsmXLom/fvvHGG2/ERx99FMuWLSvWeTVq1Ij99tsvDjjggDj00ENjzz33LNZ5pd3s2bPjrbfeigEDBsQ//vGPWLRoUbHPLFeuXOy5555x6KGHRseOHWPvvfcu9pkUr+XLl0fv3r3j5ZdfjoEDB0ZhYWHqpGKXk5MT+++/f1xwwQVx4oknRsWKFVMnAVBMvvrqq3juuefi9ddfj4ULF6bOKTHly5eP9u3bx3nnnRdHHXVU5Obmpk6C5AoKCqJ69errvP3tt98eN954YzEWlbwJEybEW2+9FW+99VZMmjQpdU6p0rBhwzjxxBPj9NNPjwYNGqTOAYAyYcaMGfHCCy/ECy+8EFOnTk2dU6L23nvvOOuss+LMM8+MzTbbLHUOAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUm5xMJpNJHQEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAkEomk4mJEyfGP/7xj/jHP/4RQ4cOjVmzZqXOKtPKly8f++67b7Rr1y4OOeSQ2GeffSIvLy91FqXYmjVrYvTo0TF8+PD47LPPYuzYsTF16tRYtWrVeq+Vk5MTdevWjUaNGsXuu+8ejRs3jn333TcaNmwYOTk5xVBf9q1duzZGjRoVn3/+eUyYMCEmTJgQEydOjIKCgg1es3z58rHzzjtHo0aNonHjxrHffvvF/vvvH1WrVi26cLLKzz//HK+99lr8/e9/j1GjRqXOKVI5OTnRokWLOP744+P444+P7bffPnUSACVo+fLl8cEHH8Q777wT/fr126hzpGyVm5sbbdq0iT//+c9x3HHHRY0aNVInQVYpKCiI6tWrr9O2TZs2ja+//rpM30f55ptv4u2334533303Ro0aFZlMJnVS1tlll13ihBNOiBNPPDGaNm2aOgcAyqxMJhNDhw6Nt99+O/r06RPTpk1LnVQsdt999zj55JPjz3/+c+y0006pcwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAoETkZHxzKgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADAv5gyZUqMGDEiRo4cGV988UWMHTs2Vq5cmTqr1KpSpUo0b9489t1332jTpk20bds2qlWrljqLMq6wsDBmzZoVP/74Y8yZMyeWLl0aS5cujWXLlsWqVauiYsWKUalSpahcuXJUr149tt1226hdu3bUrl07KlasmDp/k7Bw4cKYM2dOzJ49O+bMmROLFi2KlStXxooVK/75nvv/nqcqVarE1ltvHdtuu21ss802Ubt27cjLy0t8BKQya9as6Nu3b7z33nsxaNCgWLFiReqk9VapUqXYb7/94phjjonjjz8+tttuu9RJAGSB1atXx6effhp9+vSJgQMHxvfff586aYNVrVo1DjjggDjssMPihBNOiG233TZ1EmStgoKCqF69+h9ul5OTE8OHD4/99tuvBKqyw88//xzvv/9+fPjhhzFo0KBYvHhx6qQkKlWqFG3bto3DDjssOnToELvsskvqJADYJI0aNSreeeed6N+/f4waNSrWrFmTOmmD5OXlxV577RWHHHJInHDCCdGkSZPUSQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAUOJyMplMJnUEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEA2W7VqVYwdOza++uqrGDduXIwbNy4mTJgQixYtSp2WdcqVKxeNGjWKffbZ55+PJk2aRLly5VKnAVAGrVixIkaOHBlDhw6NoUOHxogRI2Lx4sWps/5NhQoVYt99940DDzwwDjzwwNhvv/2iYsWKqbMAyHKzZ8+OwYMHx+DBg2Po0KHx3XffRWFhYeqs3/X/PusOPvjgOPjgg2PfffeN8uXLp86CUqGgoCCqV6/+h9uddNJJ8fe//70EirLT6tWrY8SIEfHJJ5/EkCFD4osvvogVK1akzioWlStXjn322SdatWoVrVu3jgMOOCAqV66cOgsA+B8WL14cw4YNi8GDB8eQIUNizJgxsXLlytRZvysnJyd23333f16vtWnTJjbffPPUWQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAkFROJpPJpI4AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAChtMplMTJ06NcaPHx/ffvttfPfdd/H999/H999/H/PmzUudV+zy8vJip512it122y0aNmwYu+22W+y2226x++67R5UqVVLnAbCJWrt2bUyaNCnGjh0bY8eOjXHjxsX48ePj559/LrGGLbfcMho3bhxNmjSJpk2bRtOmTaNZs2ZRuXLlEmsAoGxaunRpjBs3LsaMGRNjxoyJcePGxZQpU+KXX34p0Y6tttoqmjRpEnvsscc/P+saN24clSpVKtEOKCsKCgqievXq/3WbvLy8mDRpUjRo0KCEqrLfypUr4+uvv46vvvoqRo0aFaNGjYpJkybFmjVrUqetl/Lly0fDhg1jzz33jGbNmsV+++0Xf/rTn6J8+fKp0wCA9bBmzZqYNGnSP6/Xxo4dG99//33MmjUrCgsLS6yjSpUqsfvuu//zWq1p06axxx57/OH5JgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAbGpyMplMJnUEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEBZsnDhwvjhhx9i2rRpMW3atJg+ffo///vzzz/HL7/8EmvWrEmd+V/l5eXFNttsE3Xq1PmXxw477BC77bZbNGjQIMqXL586EwDWyfLly2Pq1Kn/fMyYMSN++eWXWLBgQfz666/x66+/RkFBQaxcuTJWrVr1z0cmk4mKFStG5cqVo3LlylGpUqWoXLlybL755lG7du3Ybrvt/uWxww47xPbbb5/6cAHYxCxZsiR++umn+Omnn2Lq1KkxZ86cf36+zZ8/P3799ddYvHjxv33OrV69OsqXL/9vn3OVK1eOLbfc8t8+62rXrh316tWLbbfdNvUhQ5lSUFAQ1atX/6/bnH766fHyyy+XUFHptWLFihg3blz8f+3YTWtUWRSG0Z2XJARBKoUDTZGB4Meo/v/vEIdCghPFaEkK8TvR6kkbCNLD3bux14LDOZc7ee6Z7fvs2bN68eJFnZ+f19nZWZ2fn9fHjx9H2xaLRT169KiePHlSjx8/rqdPn9Z6va71el2Hh4ejbQBAn6urq3r58uXNzPb69evf5rXtdltfv379bV5L8tusdnR0VHfv3q3VavXbzHZ6eloPHz6sJNOfDQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/3l7u91uNx0BAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAPB/stvtarPZ1Js3b+ri4qLevn1bl5eXdXl5Wdvt9mb/8OFDff78+db68uVLXV9f1/X1df348eNm/fz5s/b39+vg4KAODg7q8PDw5vxrHR0d1WKxqOPj4zo+Pq7lcnlz/vV8//79Oj09rZOTk0oyfVUAAAAAf7TtdlvL5fIf3+/t7dXz589rvV7/i1V/nouLizo7O6tXr17Vu3fvarPZ3Oybzabev39fnz59qu/fv9e3b99u7VdXV5Xk1n+2/f39unPnTi0Wi1truVzWgwcParVa1cnJSa1Wq1qtVnXv3r3pKwAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA/ra32+120xEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAACdMh0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQLdMBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3TIdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA0C3TAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN0yHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANAt0wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADdMh0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQLdMBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3TIdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA0C3TAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN0yHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANAt0wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADdMh0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQLdMBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3TIdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA0C3TAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN0yHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANAt0wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADdMh0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQLdMBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3TIdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA0C3TAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN0yHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANAt0wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADdMh0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQLdMBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3TIdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA0C3TAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN0yHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANAt0wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADdMh0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQLdMBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3TIdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA0C3TAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN0yHQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAANAt0wEAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADdMh0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAADQLdMBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA3TIdAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA0C3TAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAN0yHQAAA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图4 缓存算法在工作负载Uniform上的缓存命中率

Figure 4 Hit Ratio of caching algorithms on workload Uniform

有时不同算法的单位增益比差别较大。在某些访问模式下，缓存增大对不同算法的增益不同。如下图5所示，不同算法随缓存增大的Hit Ratio变化幅度不同，依据变化幅度从缓到急可以分成三组：TinyLFU、LFU和LIRS；CLOCK-Pro和2Q；FIFO、LRU和ARC。

图表, 条形图

描述已自动生成

图5 缓存算法在工作负载mobi.trace.0上的Hit Ratio

Figure 5 Hit Ratio of caching algorithms on workload mobi.trace.0

**小结**：缓存越大，eMMC和Micro SDC缓存的表现越好，其大小的选择主要由可接受成本、预期表现提升决定，但也要考虑访问模式和缓存算法的影响。

**4.5　未来展望**

本文验证了eMMC和Micro SDC缓存的可行性，并且研究了不同缓存算法和工作负载参数下系统的性能、资源使用和能耗。因此，在此基础上，未来的工作可着眼于不同工作负载下缓存大小的自适应选择和缓存算法的设计。

表16 不同数据块大小的Trace在eMMC上的读表现

Table 16 Read Performance of Trace on eMMC with Different Data Block Sizes

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Block Size(KB)** | **Average Latency(ms)** | **P99 Latency(ms)** | **Bandwidth(MB/s)** | **Average CPU Usage(%)** | **Average Power(W)** | **Energy(J)** |
| 1 | 47.20%↑ | 119.25%↑ | 82.05%↓ | 39.43%↑ | 0.00% | 39.29%↑ |
| 2 | 52.64%↑ | 27.20%↑ | 65.14%↓ | 1.76%↓ | 2.82%↓ | 39.38%↑ |
| 4 | 0.01 | 0.24 | 23.20 | 22.70 | 2.55 | 3.44 |
| 8 | 94.77%↑ | 56.90%↑ | 11.90%↑ | 7.64%↓ | 0.72%↓ | 77.43%↑ |
| 16 | 130.27%↑ | 75.31%↑ | 92.17%↑ | 4.55%↑ | 8.45%↑ | 125.74%↑ |
| 64 | 351.35%↑ | 220.08%↑ | 308.36%↑ | 17.84%↓ | 11.22%↑ | 335.75%↑ |
| 256 | 1303.04%↑ | 3240.59%↑ | 442.05%↑ | 32.02%↓ | 16.98%↑ | 1281.18%↑ |
| 1024 | 5330.14%↑ | 6518.83%↑ | 469.06%↑ | 36.05%↓ | 22.18%↑ | 5396.49%↑ |
| 4096 | 21451.03%↑ | 17136.40%↑ | 477.14%↑ | 41.73%↓ | 22.90%↑ | 21706.65%↑ |

表17 FIFO在工作负载Latest上的表现

Table 17 FIFO Performance on Workload Latest

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Cache Size** | **0.02** | **0.04** | **0.06** | **0.08** | **0.1** |
| Hit Ratio | 0.346 | 0.454 | 0.533 | 0.581 | 0.619 |
| P99 Latency(ms) | 31.857 | 28.008 | 27.463 | 24.250 | 24.357 |
| Average Latency(ms) | 0.796 | 0.700 | 0.650 | 0.605 | 0.570 |
| Total Time(s) | 16.079 | 14.142 | 13.139 | 12.232 | 11.531 |
| Bandwidth(MB/s) | 31.097 | 35.357 | 38.054 | 40.877 | 43.362 |
| Average CPU Usage(%) | 14.500 | 14.909 | 15.245 | 14.910 | 14.133 |
| Average Power(W) | 3.264 | 3.417 | 3.236 | 3.233 | 3.220 |
| Energy(J) | 3439.165 | 3166.582 | 2786.687 | 2591.800 | 2433.364 |
| Price(￥) | 0.093 | 0.118 | 0.143 | 0.168 | 0.193 |

表18 缓存算法在工作负载baidutieba-4h上的表现

Table 18 Performance of Caching Algorithms on Workload baidutieba-4h

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Caching Algorithm** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| Hit Ratio | 0.941 | 0.957 | 0.588 | **0.966** | 0.953 | 0.965 | 0.956 | 0.962 | 0.935 |
| P99 Latency(ms) | 7.718 | 7.298 | 14.970 | 6.453 | 7.465 | **6.642** | 7.555 | 7.109 | 8.092 |
| Average Latency(ms) | 0.086 | 0.082 | 0.173 | **0.080** | 0.085 | 0.082 | 0.086 | 0.081 | 0.089 |
| Bandwidth(MB/s) | 10.947 | 11.471 | 5.569 | **11.733** | 11.142 | 11.525 | 10.971 | 11.588 | 10.623 |
| Average CPU Usage(%) | 16.967 | 17.807 | **15.569** | 18.571 | 17.589 | 18.843 | 17.664 | 18.486 | 17.796 |
| Average Power(W) | 2.315 | 2.243 | 2.401 | **2.239** | 2.275 | 2.274 | 2.297 | 2.281 | 2.268 |
| Energy(J) | 6929.935 | 6405.845 | 14131.374 | **6251.683** | 6690.872 | 6465.950 | 6860.910 | 6451.541 | 6996.009 |

表19 缓存算法在工作负载log106\_Messaging上的表现

Table 19 Performance of Caching Algorithms on Workload log106\_Messaging

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Caching Algorithm** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| Hit Ratio | 0.838 | 0.893 | 0.616 | **0.929** | 0.887 | 0.928 | 0.919 | 0.921 | 0.912 |
| P99 Latency(ms) | **12.718** | 13.212 | 21.115 | 12.818 | 14.198 | 13.507 | 12.608 | 12.741 | 13.802 |
| Average Latency(ms) | 0.141 | 0.129 | 0.326 | **0.116** | 0.131 | 0.118 | 0.119 | 0.117 | 0.122 |
| Bandwidth(MB/s) | 10.181 | 11.139 | 4.476 | **12.340** | 10.942 | 12.192 | 12.004 | 12.248 | 11.716 |
| Average CPU Usage(%) | 18.186 | 15.113 | **14.956** | 16.933 | 19.700 | 20.083 | 15.886 | 15.914 | 18.514 |
| Average Power(W) | 2.137 | 2.003 | 2.173 | **1.809** | 2.156 | 1.887 | 2.038 | 2.005 | 1.913 |
| Energy(J) | 6879.233 | 5893.107 | 15908.836 | **4803.744** | 6455.658 | 5071.007 | 5564.261 | 5364.385 | 5350.528 |

表20 缓存算法在工作负载mobi.trace.0上的表现

Table 20 Performance of Caching Algorithms on Workload mobi.trace.0

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Caching Algorithm** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| Hit Ratio | 0.660 | 0.663 | 0.602 | 0.662 | 0.646 | **0.682** | 0.595 | 0.617 | 0.602 |
| P99 Latency(ms) | 5.201 | 4.777 | 5.501 | 4.709 | 4.944 | **4.668** | 5.177 | 4.927 | 5.270 |
| Average Latency(ms) | 0.115 | 0.098 | 0.145 | **0.096** | 0.112 | 0.101 | 0.135 | 0.111 | 0.134 |
| Bandwidth(MB/s) | 3.840 | 4.498 | 3.065 | **4.597** | 3.939 | 4.345 | 3.299 | 3.987 | 3.306 |
| Average CPU Usage(%) | 30.278 | 29.007 | **26.338** | 29.498 | 27.852 | 30.434 | 27.468 | 28.586 | 27.152 |
| Average Power(W) | 3.327 | 3.373 | 3.354 | 3.295 | 3.229 | 3.347 | 3.404 | 3.334 | **3.272** |
| Energy(J) | 28393.931 | 24576.999 | 35860.624 | **23482.023** | 26868.111 | 25244.774 | 33815.801 | 27400.032 | 32422.939 |

表21 缓存算法在工作负载Latest上的表现（IO Off）

Table 21 Performance of Caching Algorithms on Workload Latest(IO Off)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Caching Algorithm** | **Random** | **FIFO** | **LFU** | **LRU** | **2Q** | **ARC** | **LIRS** | **CLOCK-Pro** | **TinyLFU** |
| Hit Ratio | 0.720 | 0.711 | 0.745 | 0.745 | 0.704 | 0.756 | 0.758 | 0.752 | **0.759** |
| P99 Latency(ms) | 0.123 | 0.034 | 0.034 | **0.028** | 0.029 | 0.032 | 0.031 | 0.045 | 0.059 |
| Average Latency(ms) | 0.002 | **0.001** | **0.001** | **0.001** | **0.001** | **0.001** | **0.001** | **0.001** | **0.001** |
| Average CPU Usage(%) | 8.100 | 9.300 | 36.500 | **7.200** | 26.100 | 8.100 | 9.300 | 9.300 | 8.800 |
| Average Power(W) | 3.722 | 2.560 | 2.950 | **2.505** | 3.293 | **2.505** | **2.505** | **2.505** | 2.533 |
| Energy(J) | 54.06152178 | 61.63482874 | 46.02026035 | 44.78236722 | 49.88019105 | 55.29504806 | 51.87234742 | 61.90877087 | 91.60067712 |

表22 缓存算法命中率热力表

Table 22 Caching Algorithm Hit Ratio Heat Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Hit Ratio | Random | FIFO | LFU | LRU | 2Q | ARC | LIRS | CLOCK-Pro | TinyLFU |
| Uniform | 0.079 | 0.076 | 0.068 | 0.080 | 0.036 | 0.069 | 0.081 | 0.080 | 0.079 |
| Latest | 0.685 | 0.675 | 0.710 | 0.715 | 0.691 | 0.737 | 0.733 | 0.726 | 0.734 |
| Zipfian | 0.476 | 0.482 | 0.515 | 0.519 | 0.498 | 0.547 | 0.542 | 0.541 | 0.544 |
| baidutieba-4h | 0.930 | 0.951 | 0.505 | 0.960 | 0.944 | 0.958 | 0.948 | 0.956 | 0.931 |
| log106\_Messaging | 0.789 | 0.870 | 0.603 | 0.912 | 0.852 | 0.912 | 0.899 | 0.906 | 0.895 |
| mobi.trace.0 | 0.644 | 0.652 | 0.595 | 0.653 | 0.633 | 0.665 | 0.588 | 0.615 | 0.594 |

表23 缓存算法带宽热力表

Table 23 Caching Algorithm Bandwidth Heat Table

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bandwidth(MB/s) | Random | FIFO | LFU | LRU | 2Q | ARC | LIRS | CLOCK-Pro | TinyLFU |
| Uniform | 24.436 | 25.491 | 25.634 | 24.639 | 24.615 | 24.696 | 24.881 | 25.280 | 25.451 |
| Latest | 45.168 | 43.225 | 50.857 | 49.955 | 48.454 | 53.189 | 53.005 | 51.387 | 52.701 |
| Zipfian | 33.621 | 33.561 | 35.413 | 37.693 | 36.893 | 40.213 | 40.303 | 39.772 | 39.321 |
| baidutieba-4h | 10.559 | 11.228 | 5.192 | 11.296 | 10.955 | 11.359 | 10.818 | 11.452 | 10.179 |
| log106\_Messaging | 9.075 | 10.299 | 4.336 | 11.268 | 10.391 | 11.646 | 11.012 | 11.671 | 10.980 |
| mobi.trace.0 | 3.489 | 4.549 | 3.031 | 4.465 | 4.115 | 4.144 | 3.288 | 3.903 | 3.158 |

**4　总结**

本文充分考虑小型边缘设备的资源受限特性，结合eMMC和Micro SDC的性能、开销和成本差，构造了异构二级存储系统。本文从存储系统研究的角度出发，深入探究HTS在不同缓存大小、不同缓存算法和不同访问模式下的性能、开销和成本表现，覆盖了底层存储设备、存储系统、缓存算法、上层工作负载等多个关键模块。通过对实验结果的深入分析，证实了异构二级存储系统能在可接受的成本提高下显著提升存储系统的表现，采用更大的缓存、更小的数据块和更大的读操作比例也能有效提升存储系统的表现。此外，本文揭示了不同缓存算法在不同的工作负载下对存储系统表现的影响，综合分析了缓存大小选择的影响因素以及复杂缓存算法的性能与开销。本文为研究者和从业者提供了更深层次的理解小型边缘设备的存储系统性能、开销和成本特征的指导，有望推动该领域的继续创新和进展。

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