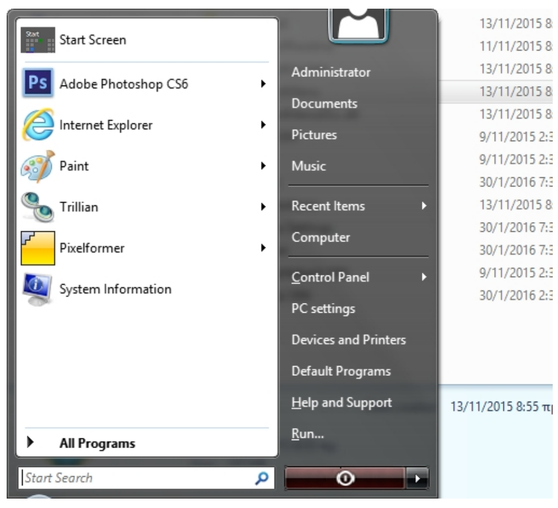
FULL Silverfast 8 Crack 13



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. . expertise and combines these with the most advanced imaging and data-processing algorithms, making SilverFast the most sophisticated workflow solution available for . . . the research community. A separate adiabatic passage scheme has been implemented in order to efficiently cool the ion-trap, when pulsing ions to a particular trap side. This allows to reliably detect single ions. Quantum computing ========== In a first step towards quantum computing, it is essential to control quantum systems and make them interact with each other, as well as with their environment. One approach is to drive the system into a ground state and perform operations on the qubits (1-qubit gate, 2-qubit gate,...). This is also called *probing* and has been demonstrated in several labs around the world with ion traps. Another approach is to keep the system in a superposition of the ground and first excited state, allowing the evolution to be used for *quantum computation*. Quantum computing requires a state in which quantum states of individual qubits can interfere with each other. Because of the complex interplay between system- and environment-related decoherence mechanisms, such a state is not stable and can only be maintained for a limited time. In order to maintain a quantum state, quantum systems have to be shielded from their environment. This has been accomplished with ion traps and cavity QED schemes. An ion trap QED system was constructed at the University of Amsterdam. In 2011 the experimental setup was demonstrated to be stable for more than a day. The length of the Ramsey fringes (see figure \[fig:Ramsey\]) shows a time of more than 30 hours. ![Time dependence of the normalized Ramsey fringes for the sodium ion. The measurements were performed in a room temperature vacuum (10$^{ -6}$ mbar). A trend of the quantum states of the qubit to decohere over time is evident. The time of the measurements of the Ramsey fringes is indicated by the dashed line.[]{data-label="fig:Ramsey"}](figures/Ramsey.png){width="\columnwidth"} While the qubit storage time will increase when lowering the environment's pressure, the quantum computations need a sufficiently large decoherence time, since quantum operations have to be performed in a highly coherent superposition state. In addition, the quantum operations have to be performed with high fidelity, in order to minimize 82157476af

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